| | | * | 20 | * | 40 | * | 60 | | |
|--------|---|----------------|------------------|---------------------|----------------------|-----------------|------------|---|-----|
| LpCSa1 | : | GNNTTATATTGACG | GGGATGAGGG | AATTCTTCGC | TACAGAGGCTA | TCCAATTGAG | GAGGT | : | 60 |
| LpCSa2 | | | | | | | | | _ |
| LpCSa3 | ÷ | | | | | | | ÷ | _ |
| LpCSa4 | : | | | | | | | : | _ |
| LpCSa4 | ٠ | | | | | | | ÷ | _ |
| | : | | | | | | | : | - |
| LpCSa6 | : | | | | | | | : | - |
| LpCSa7 | : | | | | | | | : | - |
| LpCSa8 | : | | | | | | | : | - |
| | | | | | | | | | |
| | | | | | | | | | |
| | | * | 80 | * | 100 | * | 120 | | |
| LpCSa1 | : | GGCTGAAAGCAGCT | CGTTTGTTGA | AGGTCGCCTAC | CCTCTTAATGTA | TGGGAATTTG | CCCAC | : | 120 |
| LpCSa2 | : | | | | | | | : | - |
| LpCSa3 | : | | | | | | | : | - |
| LpCSa4 | : | | | | | | | : | - |
| LpCSa5 | | | | | | | | | _ |
| LpCSa6 | | | | | | | | : | _ |
| LpCSa7 | : | | | | | | | : | |
| LpCSa8 | : | | | | | | | : | |
| прсьао | ٠ | | | | | | | ٠ | - |
| | | | | | | | | | |
| | | | 140 | _ | 160 | _ | 180 | | |
| T CC 1 | | CCAGAGTCAACTGG | | ammma an a me | | maamammaan | | | 100 |
| LpCSa1 | : | | | | Process - Cache | | | : | 180 |
| LpCSa2 | : | | CARCICICALICECEA | (CALMINIC(CAMANIA | mireletect - extende | TECTETTECT | CANGN | : | 46 |
| LpCSa3 | : | | | | | | | : | - |
| LpCSa4 | : | | | | | | | : | - |
| LpCSa5 | : | | | | | | | : | - |
| LpCSa6 | : | | | | | | | : | - |
| LpCSa7 | : | | | | | | | : | - |
| LpCSa8 | : | | | | | | | : | - |
| - | | | | | | | | | |
| | | | | | | | | | |
| | | * | 200 | * | 220 | * | 240 | | |
| LpCSa1 | : | ACTCTTGGATATAA | PACMATCMAT | GCCTCATGA | PGCCCACCCCAT | GGGTGTCCTT | GCCAG | : | 240 |
| LpCSa2 | | ACTCTTGGATATAA | TACAATCAAT | GCCTCATGAS | FGCCCACCCCAT | GGGTGTCCTT | GCCAG | | 106 |
| LpCSa3 | ÷ | | | | | | | | |
| LpCSa4 | ÷ | | | | | | | : | _ |
| LpCSa5 | : | | | | | | | : | |
| LpCSa6 | | | | | | | | ٠ | _ |
| | ٠ | | | | | | | ٠ | _ |
| LpCSa7 | ٠ | | | | | | | ; | - |
| LpCSa8 | : | | | | | | | : | - |
| | | | | | | | | | |
| | | | 0.00 | | | | 200 | | |
| | | | 260 | * | 280 | * | 300 | | |
| LpCSa1 | : | TGCAATGAGCACAC | TTTCAGTCT | rccatccaga | rgcaaacccttgc | TCTTAGAGGT | CAAGA | : | 300 |
| LpCSa2 | : | TGCAATGAGCACAC | HAMANA ALCANOMA | recent recent (C):N | IGCAAACCCTGC | HICHTIVACIACEGI | (C/A/A/C/A | : | 166 |
| LpCSa3 | : | | | | | | | : | - |
| LpCSa4 | : | | | | | | | : | - |
| LpCSa5 | : | | | | | | | : | - |
| LpCSa6 | : | | | | | | | : | - |
| LpCSa7 | : | | | | | | | : | - |
| LpCSa8 | : | | | | | | | | - |

FIGURE 1

| | | * | 320 | * | 340 | * 360 | | |
|------------------|---|---|--------------|------------|--------------|--------------|-----|------------|
| LpCSa1 | : | TCTATACAAGTCGAAG | CAGGTTAGGGAT | AAGCAAAT | TGTACGAGTTCT | TGGGAAGGCACC | : | 360 |
| LpCSa2 | : | TCTATACAAGTCGAAG | CAGGTTAGGGAT | AAGCAAAT | TGTACGAGTTCT | TGGGAAGGCACC | : | 226 |
| LpCSa3 | : | | | | | | | - |
| LpCSa4 | : | | | | | | : | - |
| LpCSa5 | : | | | | | | | _ |
| LpCSa6 | : | | | | | | : | - |
| LpCSa7 | : | | | | | | : | - |
| LpCSa8 | : | | | | | | : | - |
| - | | | | | | | | |
| | | | | | | | | |
| | | * | 380 | * | 400 | * 420 | | |
| LpCSa1 | : | AGTAATAGCAGCTGCA | | | | | : | 420 |
| LpCSa2 | : | AGTAATAGCAGCTGCA | GCCTATCTGAGA | TTAGCAGG | AAGGCCCTTTGT | CCTTCCTTCAAA | : | 286 |
| LpCSa3 | : | | | | | | : | - |
| LpCSa4 | : | | | | | | : | - |
| LpCSa5 | : | | | | | | : | - |
| LpCSa6 | : | | | | | | : | - |
| LpCSa7 | : | | | | | | : | - |
| LpCSa8 | : | | | | | | : | - |
| | | | | | | | | |
| | | | | | | | | |
| | | * | 440 | * | 460 | * 480 | | |
| LpCSa1 | : | TAATCTCTCTTATTCA | | | | | | 480 |
| LpCSa2 | : | TAATCTCTCTTATTCA | GAAAATTTCTTC | TATATGCT | GGACTCTATGGG | TGACAAAGATTA | : | 346 |
| LpCSa3 | : | | | | | | : | - |
| LpCSa4 | ; | | | | | | : | - |
| LpCSa5 | : | | , | | | | : | - |
| LpCSa6 | : | | | | | | : | - |
| LpCSa7 | ; | | | | | | : | - |
| LpCSa8 | : | | | | | | : | - |
| | | | | | | | | |
| | | | | | | | | |
| | | * | . 200 | * | 520 | * 540 | | |
| LpCSa1 | : | TAAGCCAAATCCCAGA | | | | | | 540 |
| LpCSa2 | : | TAAGCCAAATCCCAGA | CHARGEGEGEAN | CTGGATGT | | | | 406 |
| LpCSa3 | : | | | | N | TTNTGCTG-ACA | | 12 |
| LpCSa4 | ; | | | | | | : | - |
| LpCSa5 | : | | | | | | : | - |
| LpCSa6 | : | | | | | | : | - |
| LpCSa7 | ; | | | | | | ٠ | - |
| LpCSa8 | ; | | | | | | : | - |
| | | | | | | | | |
| | | | 560 | | | | | |
| T = CC = 1 | | CGAAATGAACTGCTCA | | n adar ada | 580 | * 600 | | |
| LpCSa1 LpCSa2 | : | CGAAATGAACTGCTCA | | | | | 1 | 600 466 |
| LpCSa2 LpCSa3 | : | CGAAATGAACTGCTCA CGAAATGA <mark>N</mark> CTGCTCA | | | | | | 72 |
| LpCSa4 | 1 | COMMATORICTECTCA | MCMGCTGCTGT" | MGGCACC | TGCTTCAAGTGG | TGTCGATGTCTT | 1 : | 72 |
| LpCSa4 | : | | | | | | • | - |
| LpCSa6 | : | | | | | | : | - |
| LpCSa7 | : | | | | | | • | - |
| LpCSa8 | : | | | | | | | - |
| | | | | | | | | |

FIGURE 1 (cont.)

| | | * | 620 | * | 640 | * | 660 | | |
|--------|---|------------------|--------------------|----------|--------------|----------|-----------|----|-----|
| LpCSa1 | : | CACTGCTCTTTCTGGT | GCTGTTGGAGCT | CTATATGG | TCCACTGCATGC | NGGCGCAZ | ATG. | : | 660 |
| LpCSa2 | | CACTGCTCTTTCTGGT | YSCTICTTYCCACCT | CTATATCC | TCCACTCCATCC | TCCCCCAN | ATCZ | | 526 |
| LpCSa3 | | CACTGCTCTTTCTGGT | | | | | | : | 132 |
| LpCSa4 | | cherocretticidal | OCIGIIOGAGCI | CIAIAIGO | ICCACIGCAIGG | IGGCGCAA | AIGA | • | 132 |
| | ٠ | | | | | | | ; | - |
| LpCSa5 | : | | | | | | | : | - |
| LpCSa6 | : | | | | | | | : | - |
| LpCSa7 | : | | | | | | | : | - |
| LpCSa8 | : | | | | | | | : | - |
| | | | | | | | | | |
| | | | | | | | | | |
| | | * | 680 | * | 700 | * | 720 | | |
| LpCSa1 | | NGCGGTACTT-AAATC | TTABATCACATT | CCAACTCT | | CCAATTCA | | | 719 |
| LpCSa2 | : | GGCGGTACTTAAAATG | | | | | | • | |
| | • | | | | | | | : | 586 |
| LpCSa3 | : | GGCGGTACTTAAAATG | TTAAATGAGATT | GGAAGTGT | AGAGAATATTCC | GGAATTCA | TTGA | : | 192 |
| LpCSa4 | : | | | | | | | : | - |
| LpCSa5 | : | | | | | | | : | - |
| LpCSa6 | : | | | | | | | : | - |
| LpCSa7 | : | | | | | | | : | - |
| LpCSa8 | : | | | | | | | | |
| - | | | | | | | | | |
| | | | | | | | | | |
| | | | 740 | | 760 | | 780 | | |
| LpCSa1 | | GGGAGTGAAGAACAGG | | | | • | 780 | | |
| | ٠ | | | | | | | : | 763 |
| LpCSa2 | : | GGGAGTGAAGAACAGG | | | | | | : | 646 |
| LpCSa3 | : | GGGAGTGAAGAACAGG | AAGCGGAAAATG | тепессти | TGGGCACCGTGT | GTATAAGA | ATTA | : | 252 |
| LpCSa4 | : | | | | | | G | : | 2 |
| LpCSa5 | : | | | | | | | : | - |
| LpCSa6 | : | | | | | | | : | - |
| LpCSa7 | | | | | | | | , | _ |
| LpCSa8 | | | | | | | | : | _ |
| | | | | | | | | • | |
| | | | | | | | | | |
| | | | 800 | | 820 | | 840 | | |
| LpCSa1 | | | 000 | | 020 | | 040 | | |
| LpCSa2 | • | TGATCCTCGTGCTAAA | OFFICE PROCESS AND | | | | | ٠ | |
| | ٠ | | | | | | | : | 682 |
| LpCSa3 | : | TGATCCTCGTGCTAAA | GITCATECCGGAAG | TTAGCGGA | GGAGGTTTTCAC | GATTGTGG | (e)A(C(C | : | 312 |
| LpCSa4 | : | TTATCCTCGCGCTAAA | | | | | | ŧ. | 61 |
| LpCSa5 | : | | CCAAC | TTAGCGGA | GGAGGTTTTCAC | GATTGTGG | GACG | : | 37 |
| LpCSa6 | : | | | | | | | : | - |
| LpCSa7 | : | | | | | | | : | - |
| LpCSa8 | : | | | | | | | | _ |
| - | | | | | | | | | |
| | | | | | | | | | |
| | | | 860 | | 880 | | 900 | | |
| LpCSa1 | | | 550 | | 000 | | 900 | | |
| | • | | | | | | | : | - |
| LpCSa2 | : | | | | | | | : | - |
| LpCSa3 | : | GGATCCTCTTATCGAG | GTAGCTGTTGCT | TTGGAGAA | GGTAGCACTGTC | AGACGAGT | ASALMATA. | : | 372 |
| LpCSa4 | : | GGATCCTCTTATCGAG | GTAGCTGTTGCT | TTGGAGAA | GGCAGCACTGTC | AGACGAGT | ATTT | : | 121 |
| LpCSa5 | : | GGNTCCTCTTATCGAC | GTAGCTGTTGCT | TTGGAGAA | GGCAGCACTGTC | AGACGAGT | ATTT | : | 97 |
| LpCSa6 | : | | | | | AGACGAGI | ATTT | : | 16 |
| LpCsa7 | : | | | | | AGACGAGT | ATTT | : | 15 |
| InCSa8 | | | | | | | | | |

FIGURE 1 (cont.)

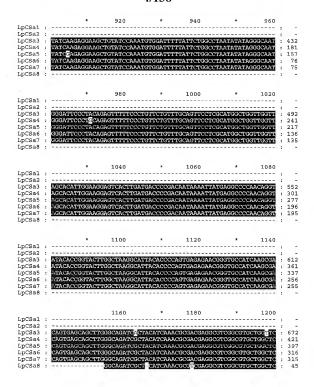


FIGURE 1 (cont.)

| | | | * | 1220 | * | 1240 | * | 1260 | |
|--------|---|-----------|---------------|---------------|----------|---------------|---------|--------|-------|
| LpCSa1 | : | | | | | | | | |
| LpCSa2 | : | | | | | | | | - |
| LpCSa3 | : | TGCCCTGT | PAGAACAG | TCTGCATGATAC | AGCATACA | GTCCACACAATAA | ACCAAGO | TGCC | 732 |
| LpCSa4 | : | TGCCCTGT | AGAACAG | TCTGCATGATAC | AGCATACA | GTCCACACAATAA | ACCAAGO | TGCC | 481 |
| LpCSa5 | : | TGCCCTGT | AGAACAG | TCTGCATGATAC | AGCATACA | GTCCACACAATAA | ACCAAGO | TGCC | 457 |
| LpCSa6 | : | TGCCCTGT | AGAACAG | TCTGCATGATAC | AGCATACA | GTCCACACAATAA | ACCAAGO | TGCC | 376 |
| LpCSa7 | : | | | | | GTCCACACAATAA | | | 375 |
| LpCSa8 | : | TGCCCTGT | AGAACAG | TCTGCATGATAC | AGCATACA | GTCCACACAATAA | ACCAAGO | TGCC | : 105 |
| _ | | | | | | | | | |
| | | | | | | | | | |
| | | | * | 1280 | * | 1300 | * | 1320 | |
| LpCSa1 | : | | | | | | | | : - |
| LpCSa2 | : | | | | | | | | : - |
| LpCSa3 | : | AGGGCCAC | | | | | | | : 753 |
| LpCSa4 | : | | | | | CTTGTGTTATCAC | | | : 541 |
| LpCSa5 | : | | | | | CTTCTCTTATCAC | | | : 517 |
| LpCSa6 | : | | | | | CTTGTGTTATCAC | | | : 436 |
| LpCSa7 | : | | | | | CTTGTGTTATCAC | | | : 435 |
| LpCSa8 | : | AGGGCCAC | GGCTGCT | TAAATCTGGGAG | CTGCTATA | CTTGTGTTATCAC | GTATATA | TAGGC | : 165 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | * | 1340 | * | 1360 | * | 1380 | |
| LpCSa1 | : | | | | | | | | : - |
| LpCSa2 | : | | | | | | | | : - |
| LpCSa3 | : | | | | | | | | : |
| LpCSa4 | : | | | | | TGGTCATGTGAA | | | : 601 |
| LpCSa5 | : | | | | | TGGTCATGTGAAC | | | : 577 |
| LpCSa6 | : | | | | | TGGTCATGTGAAC | | | : 496 |
| LpCSa7 | : | | | | | TGGTCATGTGAAC | | | : 495 |
| LpCSa8 | ٠ | HH TAPACT | VAVAVIVAVAVIC | CCGCCAGGACAC | TTCACTGG | TGGTCATGTGAAC | TTGGTA | TAG | : 225 |
| | | | | | | | | | |
| | | | * | 1400 | * | 1420 | * | 1440 | |
| LpCSa1 | | | | | | | | 1440 | |
| LpCSa2 | ; | | | | | | | | |
| LpCSa3 | | | | | | | | | |
| LpCSa4 | | TGCACTTG | TAACGTO | TTGTTAATTTGT | TATCCTGC | AATGTACGCTCT | тавасто | TTCAG | : 661 |
| LpCSa5 | i | | | | | AATGTACGCTCT | | | : 637 |
| LpCSa6 | | | | | | AATGTACGCTCT | | | : 556 |
| LpCSa7 | | | | | | AATGTACGCTCT | | | : 555 |
| LpCSa8 | | | | | | AATGTACGCTCT | | | : 285 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | * | 1460 | * | 1480 | * | 1500 | |
| LpCSa1 | : | | | | | | | | : - |
| LpCSa2 | : | | | | | | | | : - |
| LpCSa3 | : | | | | | | | | : - |
| LpCSa4 | : | TETETTE | AAAGTCTT | PAATCATGTGGAC | CAA-GAAG | ACATAGATCAAG | TCTTTG | ATGGG | : 720 |
| LpCSa5 | : | TATCTTGA | AAGTCTT | PANTOCNNNNAAA | AQ | | | | : 666 |
| LpCSa6 | : | TATCTTGA | AAAGTCTT | PAATCATGTGGAC | CAA-GAAG | ACATAGATCAAG. | TCTTTG | CATGGG | : 615 |
| LpCSa7 | : | TATCTTGA | AAGTCTT | PAATCATGTGGAC | CAATCAA | AAAAAA | | | : 597 |
| LpCSa8 | | TATCTTGA | AAAGTCTT | AAAAAAAA | | | | | : 310 |

FIGURE 1 (cont.)

| | | * | 1520 | * | 1540 | * |
|--------|---|---------------|---------------|------------|-----------|--------------|
| LpCSa1 | : | | | | | : - |
| LpCSa2 | : | | | | | : - |
| LpCSa3 | : | | | | | : - |
| LpCSa4 | : | CGGCGGCTGTTTC | TTTGGNAAAAA | | | : 745 |
| LpCSa5 | : | | | | | : - |
| LpCSa6 | : | CGGCGGCTGTTTC | THINETETTTCCT | CTTTTTATGG | GAGTCTTTT | TTTACC : 665 |
| LpCSa7 | : | | | | | : - |
| LnCsa8 | | | | | | |

| | | * 20 * 40 * | 60 | | |
|--------|---|--|----------------|----|-----|
| LpCSb1 | , | CTTCTCCCTGTNACTGCTCTCCAATGACACAGTTTACCACTGGAGTGATGG | CACTCCAAG | | 60 |
| LpCSb2 | : | | | | |
| | • | , | | • | |
| LpCSb3 | : | | | : | - |
| LpCSb4 | : | | | : | - |
| | | | | | |
| | | | | | |
| | | * 80 * 100 * | 120 | | |
| LpCSb1 | | TTGAGAGTGAATTTGCAAAGGCTTATGAGAAGGGAATTCATAAATCAAAGT | | | |
| | ٠ | 110MGAG1GMATITGCAMAGGCTTATGAGAMGGGMATICATAMATCAMAGT | I C I GGGAGC | ٠. | 120 |
| LpCSb2 | : | | | : | - |
| LpCSb3 | : | | | : | - |
| LpCSb4 | : | | | : | - |
| - | | | | | |
| | | | | | |
| | | * 140 * 160 * | 180 | | |
| | | | | | |
| LpCSb1 | : | CTACATATGAAGATAGCTTAAATTTGATTGCTCGGCTTCCACAAGTGGCTT | CAVIVAVIGITILI | : | 180 |
| LpCSb2 | : | | | : | - |
| LpCSb3 | : | | | : | - |
| LpCSb4 | : | | | : | _ |
| - | | | | | |
| | | | | | |
| | | * 200 * 220 * | | | |
| | | | 240 | | |
| LpCSb1 | : | ACCGGAGAATTTTCAAGGACGGGAAAACTATTGCAGCTGATAATACACTGG. | ACTACGCAG | : | 240 |
| LpCSb2 | : | | | : | - |
| LpCSb3 | : | | | : | - |
| LpCSb4 | t | | | | - |
| -pober | | | | • | |
| | | | | | |
| | | | | | |
| | | * 260 * 280 * | 300 | | |
| LpCSb1 | : | CTAATTTTCACACATGCTTGGTTTTGATGACCCCAAAATGCTGGAGTTGA | TGCGCCTAT | : | 300 |
| LpCSb2 | : | | | : | - |
| LpCSb3 | : | | | : | - |
| LpCSb4 | : | | | | - |
| | | 4 | | | |
| | | | | | |
| | | * 320 * 340 * | 360 | | |
| | | | | | |
| LpCSb1 | : | ACATAACAATTCACACTGATCACGAAGGAGGGAATGTTAGTGCTCATGCTG | GGCATCTGG | | 360 |
| LpCSb2 | : | | | : | - |
| LpCSb3 | : | | | : | - |
| LpCSb4 | : | | | : | - |
| | | | | | |
| | | | | | |
| | | * 380 * 400 * | 420 | | |
| | | | | | |
| LpCSb1 | : | TTGGAAGTGCTCTGTCAGATCCTTATCTTTCTTTTGCAGCGGCACTGAACG | GTTTAGCTG | : | 420 |
| LpCSb2 | : | | | : | - |
| LpCSb3 | : | | | : | - |
| LpCSb4 | : | | | : | - |
| | • | | | ٠ | |
| | | | | | |
| | | | | | |
| | | * 440 * 460 * | 480 | | |
| LpCSb1 | : | GACCACTGCACGGCTTGGCTAATCAGGAAGTGTTGTTATGGATCAAATCTG | | : | 480 |
| LpCSb2 | : | :TNATGGAT-NAATCTG | TGATGGAAG | : | 24 |
| LpCSb3 | : | | | ٠. | _ |
| | | | | | |

FIGURE 2

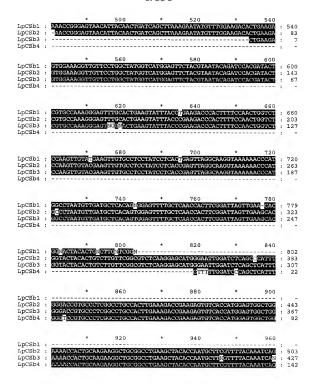


FIGURE 2 (cont.)

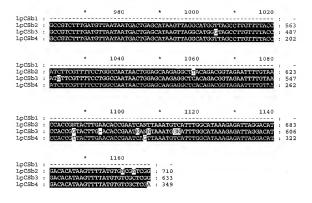


FIGURE 2 (cont.)

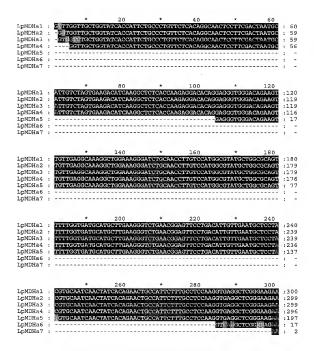


FIGURE 3

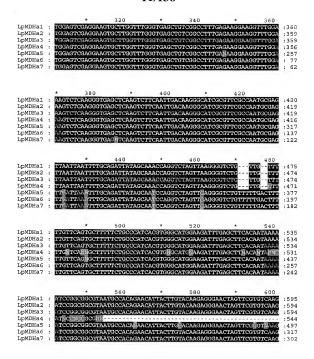
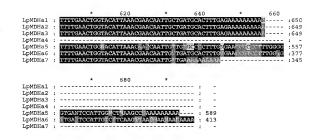


FIGURE 3 (cont.)



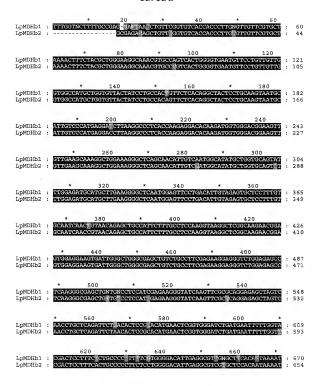


FIGURE 4

| LpMDHb1 LpMDHb2 | : | 680 GGCGTGN TTGTTG GGCGTGT CTTGTTG | | | | 720 GAAAGAGTGAA | * ACCCTGTGC | | 708 715 |
|--------------------|---|--|--------------|---------------------|---------------|--------------------|----------------|---|------------|
| LpMDHb1 LpMDHb2 | : | 740 CTTATGTACCACAG | * PACCETC | 760 AACCCGAAAATC | * ATGAAGGT | 780 AGCAGAAGATT | * CTGTGGAAG | : | 776 |
| LpMDHb1 | : | 800 | : - | | | | | | |

| LpMDHf1 | | CHARACTAT | COLUMN TO A LOCATION OF | 0.03 2 2 2 2 mood | | | | | | 60 |
|--------------------|---|----------------------|-------------------------|------------------------------------|----------------------|-----------------------------------|------------------|--------------|---|------------|
| LpMDHf2 | : | | | | | TCCGATCAATC TCCGATCAATC | | | : | 58 |
| LpMDHf1 LpMDHf2 | : | AAGAGCTG | * TCCTAATO | 80 SCAATAGTGAA | * ATTTGATCA | 100 GCAACCCTGTG | * AACTCAACTG | 120 | : | 120 |
| TOMOREZ | ٠ | MAGAGCIG | * | 140 | * | 160 | * | 180 | : | 118 |
| LpMDHf1 LpMDHf2 | : | ATTGCGGC ATTGCGGC | ANAAGNT AGAAG T | TTCAAGAGGG | TGGAACTT TGGAACTT | 'ACTGCCCAAA 'ACTGCCCAAA | CGTCTCCTTG | GAGTG | : | 180 178 |
| LpMDHf1 | : | | | | | 220 TGGCTGAAGTG | | | : | 240 |
| LpMDHf2 | : | ACAACTCT | TGATGTA | | CACCTITE | TGGCTGAAGTG | CITIGGAG TO | | | 238 |
| LpMDHf1 LpMDHf2 | : | AGAGAAGN AGAGAAG? | CAGTGTT CAGTGTT | 260 CCGGNTGTTGC CCGG (TGTTGC | * ECGGGCATG | 280 CNGGGATCACI CAGGGATCACI | ATATTGCCCC | 300 TCCTC | : | 300 298 |
| LpMDHf1 LpMDHf2 | : | | | | | 340 ATGAAATCAGO ATGAAATCAGO | | | : | 360 358 |
| LpMDHf1 LpMDHf2 | : | ATACAGAA ATACAGAA | * TGGCGGT2 | 380 ACCGAAGTTGT ACCGAAGTTGT | * TTGAGGCAA | 400 AGGCTGGAGCA AGGCTGGAGCA | * .GGCTCTGCAA | 420 CTTTC | : | 420 418 |
| LpMDHf1 LpMDHf2 | : | | | | | 460 CATGCTTGCG1 CATGCTTGCG1 | | | : | 480 478 |
| LpMDHf1 LpMDHf2 | : | GCTGGCAT GCTGG\AT | | | * TGCATCTC | 520 AGGTGACAGAG | * CTGCCGTTCT | 540 WWGG9 | : | 540 497 |
| LpMDHf1 LpMDHf2 | : | ACAAAAGT | * GAGGTTA | 560 GGTCGTGGCGC | * PAGCTGAGG | 580 AGATCCTCCCI | * CTTGGGCCA | 600 TGAAT | : | 600 |
| LpMDHf1 | : | GACTITGA | * GAGAGCT(| 620 ECCTECAGA | * AGGCGAANA | 640 AGGAGCTCAGG | * GAGAGCATCO | 660 AGAAC | 4 | 660 |

| LpMDHf1 LpMDHf2 | : | GGTGTGGCGTT | 680 CATGAACAA | | 700 ATGAATGGATG | GATACCCCGC | 720 NACCTATAC | : | 720 |
|--------------------|---|------------------|------------------|-----|--------------------|-----------------|------------------|-----|-----|
| LpMDHf1 LpMDHf2 | : | * ATAGATGATGO | 740 | | 760 | * TCCTATATAC | 780 | : : | 780 |
| LpMDHf1 LpMDHf2 | : | enencencee | GTAAGAA | 798 | | | | | |

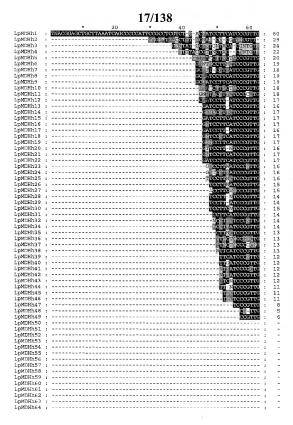




FIGURE 6 (cont)

| | | | 140 | * | 160 | | 180 | | |
|----------------------|---|----------------------------------|---------------|-----------|---------------|-------------------|--------|---|------------|
| LpMDHh1 | : | CGAAGGAACCGATG | CGCGTGCTCGTCA | CCGCCGCC | GCAGGACAAAT | TGGATATGCT | CTTGTT | : | 184 |
| LpMDHh2 | : | CGAAGGAACCGATG | CGCGTGCTCGTCA | CCGGCGCC | GTAGGACAAAT: | TGGATATGCT(| CTTGTT | : | 150 |
| LpMDHh3 | : | CGAAGGAACCGATG | CGCGTGCTCGTCA | CCGGCGCC | GCAGGACAAAT. | TGGATATGCT(| CTTGTT | : | 148 |
| LpMDHh4 | : | CGAAGGAACCGATG | CGCGTGCTCGTCA | CCGGCGCC | GCAGGACAAAT". | IGGATATGCT | TTGTT | : | 145 |
| LpMDHh5 | : | CGAAGNAACCGATG | CGCGTGCTCGTCA | CCGGCGCC | GCAGGACAAAT" | rggatatget(| CTTGTT | : | 144 |
| LpMDHh6 | : | CGAAGGAACCGATG | | | | | | : | 142 |
| LpMDHh7 | : | CGAAGGAACCGATG | | | | | | : | 140 |
| LpMDHh8 | : | CGAAGGAACCGATG | | | | | | : | 143 |
| LpMDHh9 | : | CGAAGGAACCGATG | | | | | | : | 143 |
| LpMDHh10 | : | CGAAGGAACCGATG | | | | | | : | 141 |
| LpMDHh11 | : | CGAAGGAACCGATG | | | | | | | 142 |
| LpMDHh12 | : | CGAAGGAACCGATG | | | | | | : | 140 |
| LpMDHh13 | : | CGAAGGAACCGATG | | | | | | : | 139 |
| LpMDHh14 | : | CGAAGGAACCGATG | | | | | | : | 140 |
| LpMDHh15 | : | CGAAGGAACCGATG | | | | | | : | 140 |
| LpMDHh16 | : | CGAAGGAACCGATG | | | | | | : | 140 139 |
| LpMDHh17 LpMDHh18 | • | CGAAGGAACCGATG CGAAGGAACCGATG | | | | | | 1 | 140 |
| LpMDHh19 | | CGAAGGAACCGATG | | | | | | 1 | 140 |
| LpMDHh119 | : | CGAAGGAACCGATG | | | | | | | 139 |
| LpMDHh21 | : | CGAAGGAACCGATC | | | | | | Ċ | 140 |
| LpMDHh22 | : | CGAAGGAACCGATC | | | | | | | 140 |
| LpMDHh23 | ; | CEAAGGAACCGATG | | | | | | | 139 |
| LpMDHh24 | i | | CGCGTGCTCGTCA | | | | | | 139 |
| LpMDHh25 | ì | CGAAGGAACCGATG | | | | | | i | 139 |
| LpMDHh26 | | CGAAGGAACCGATC | | | | | | | 138 |
| LpMDHh27 | | CGAAGGAACCGATG | | | | | | | 139 |
| LpMDHh28 | : | CGAAGGAACCGATG | CGCGTGCTCGTCA | ccccccc | GCAGGACAAAT | TGGATATGCT | CTTGTT | : | 137 |
| LpMDHh29 | : | CGAAGGAACCGATG | CGCGTGCTCGTCA | CCGGCGC | GCAGGACAAAT | TGGATATGCT | CTTGTT | : | 137 |
| LpMDHh30 | : | CGAAGGAACCGATG | | | | | | : | 138 |
| LpMDHh31 | : | CGAAGGAACCGATG | | | | | | : | 137 |
| LpMDHh32 | : | CGAAGGAACCGATC | | | | | | : | 138 |
| LpMDHh34 | : | CMAAGGAACCGATC | | | | | | : | 137 |
| LpMDHh35 | : | CGAAGGAACCGATG | | | | | | : | 137 |
| LpMDHh36 | : | CGAAGGAACCGATG | | | | | | : | 136 |
| LpMDHh37 | : | CGAAGGAACCGATG | | | | | | : | 137 |
| LpMDHh38 | : | CGAAGGAACCGATG | | | | | | : | 136 |
| LpMDHh39 LpMDHh40 | ; | CGAAGGAACCGATG CGAAGGAACCGATG | | | | | | : | 136 135 |
| LpMDHn41 | : | CGAAGGAACCGATG | | | | | | : | 135 |
| LpMDHh42 | 1 | CGAAGGAACCGATG | | | | | | : | 134 |
| LpMDHh43 | : | CGAAGGAACCGATG | | | | | | : | 135 |
| LpMDHh44 | ì | CGAAGGAACCGATC | | | | | | : | 134 |
| LpMDHh45 | : | CGAAGGAACCGATG | | | | | | : | 133 |
| LpMDHh46 | | CGAAGGAACCGATC | | | | | | | 134 |
| LpMDHh47 | | CGAAGGAACCGATC | CCCCTCCTCA | ACCGGCGC | GCAGGACAAAT | TGGATATGCT | сттети | | 131 |
| LpMDHh48 | : | CGAAGGAACCGATC | CGCGTGCTCGTCA | CCGGCGC | GCAGGACAAAT | TGGATATGCT | CTTGTI | | 127 |
| LpMDHh49 | : | CGAAGGAACCGATC | CGCGTGCTCGTCA | ACCGGCGCG | GCAGGACAAAT" | TGGATATGCT | CTTGTI | : | 130 |
| LpMDHh50 | : | CGAAGGAACCGATG | CGCGTGCTCGTCA | ACCEGCEC | GCAGGACAAAT | TGGATATGCT | CTTGTT | : | 108 |
| LpMDHh51 | : | CGAAGNAACCGA-C | | | | | | : | 91 |
| LpMDHh52 | : | GEACCGATO | CGTGCTCGTCA | ACCGGCGCG | GCAGG CAAAT | TGGATATGCT | CTTGTT | : | 57 |
| LpMDHh53 | : | | | | | | | : | - |
| LpMDHh54 | : | | | | | | | : | - |
| LpMDHh55 | : | | | | | | | : | - |
| LpMDHh56 | : | | | | | | | : | - |
| LpMDHh57 | : | | | | | | | : | - |
| LpMDHh58 | : | | | | | | | : | - |
| LpMDHh59 | : | | | | | | | : | - |
| LpMDHh60 LpMDHh61 | : | | | | | | | : | - |
| LpMDHh62 | : | | | | | | | : | - |
| LpMDHh63 | 1 | | | | | | | : | |
| LpMDHh64 | : | | | | | | | : | |
| | | | | | | | | | |

FIGURE 6 (cont.)

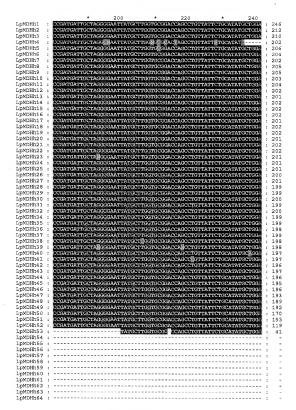


FIGURE 6 (cont.)

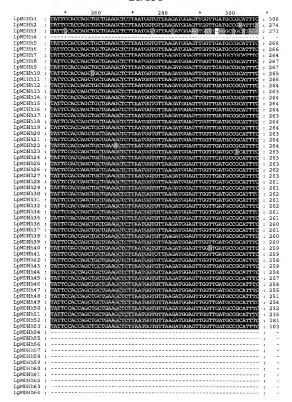
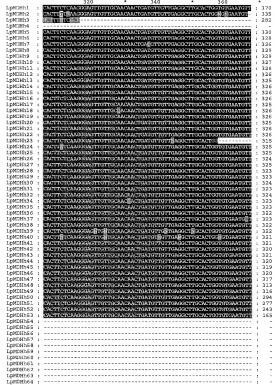


FIGURE 6 (cont.)



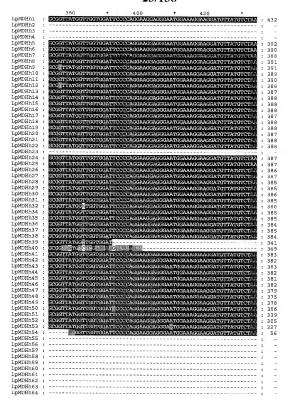


FIGURE 6 (cont.)

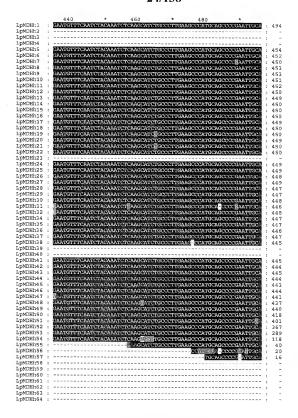


FIGURE 6 (cont.)

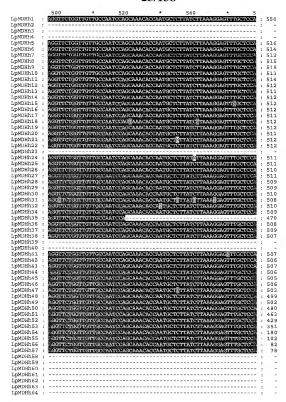


FIGURE 6 (cont.)

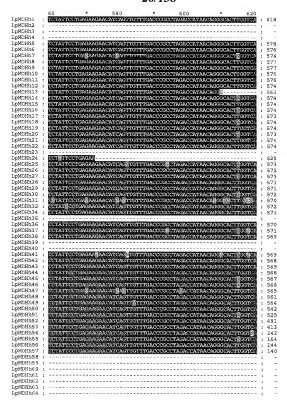


FIGURE 6 (cont.)

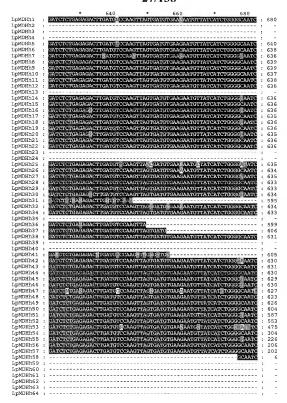


FIGURE 6 (cont.)

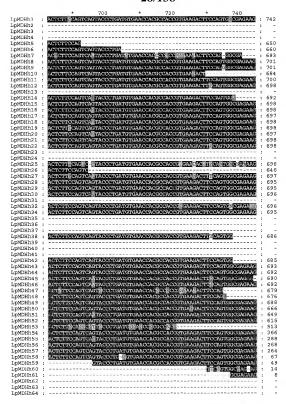


FIGURE 6 (cont.)

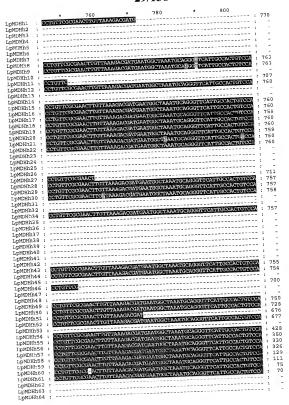
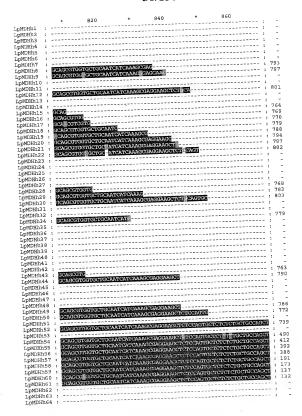


FIGURE 6 (cont.)



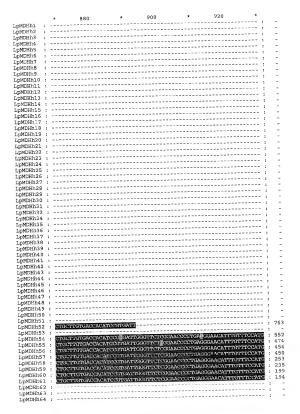


FIGURE 6 (cont.)

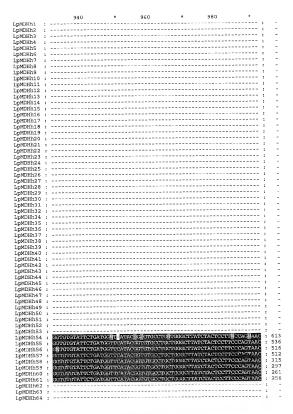


FIGURE 6 (cont.)

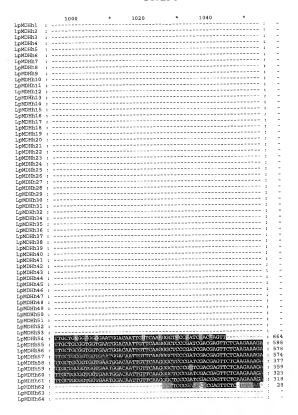


FIGURE 6 (cont.)

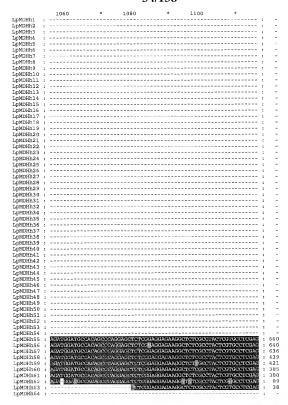
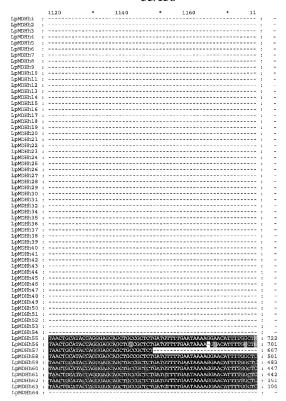
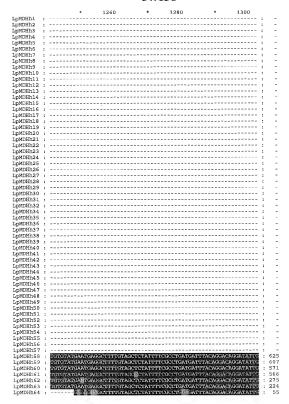


FIGURE 6 (cont.)



| | | 80 * | 1200 | * | 1220 | * | 1240 | | |
|----------|-----|--------------------------|--------------|---------|---------------|-------|---------|---|-----|
| LpMDHh1 | : | | | | | | | : | - |
| LpMDHh2 | : | | | | | | | : | - |
| LpMDHh3 | ÷ | | | | | | | | - |
| LpMDHh4 | ÷ | | | | | | | | - |
| LpMDHh5 | ÷ | | | | | | | , | _ |
| LpMDHh6 | ÷ | | | | | | | ÷ | - |
| LpMDHh7 | : | | | | | | | : | _ |
| LpMDHh8 | : | | | | | | | ; | |
| LpMDHh9 | ٠ | | | | | | | | _ |
| | ٠ | | | | | | | : | - |
| LpMDHh10 | : | | | | | | | ٠ | - |
| LpMDHh11 | j, | | | | | | | : | - |
| LpMDHh12 | ; | | | | | | | : | - |
| LpMDHh13 | : | | | | | | | : | - |
| LpMDHh14 | ; | | | | | | | : | - |
| LpMDHh15 | : | | | | | | | : | - |
| LpMDHh16 | : | | | | | | | : | - |
| LpMDHh17 | : | | | | | | | : | - |
| LpMDHh18 | : | | | | | | | : | - |
| LpMDHh19 | : | | | | | | | : | - |
| LpMDHh20 | : | | | | | | | : | - |
| LpMDHh21 | | | | | | | | : | - |
| LpMDHh22 | | | | | | | | : | - |
| LpMDHh23 | ÷ | | | | | | | | - |
| LpMDHh24 | : | | | | | | | ÷ | _ |
| LpMDHh25 | | | | | | | | : | |
| LpMDHh26 | 1 | | | | | | | : | |
| LpMDHh27 | : | | | | . | | | : | _ |
| LpMDHh28 | ٠ | | | | | | | ; | _ |
| LpMDHh29 | ٠ | | | | | | | : | _ |
| | ٠ | | | | | | | • | |
| LpMDHh30 | ٠ | | | | | | | : | - |
| LpMDHh31 | ٠ | | | | | | | : | - |
| LpMDHh32 | : | | | | | | | : | - |
| LpMDHh34 | : | | | | | | | : | - |
| LpMDHh35 | : | | | | | | | : | - |
| LpMDHh36 | : | | | | | | | : | - |
| LpMDHh37 | : | | | | | | | : | - |
| LpMDHh38 | : | | | | | | | : | - |
| LpMDHh39 | : | | | | | | | : | - |
| LpMDHh40 | : | | | | | | | : | - |
| LpMDHh41 | : | | | | | | | : | - |
| LpMDHh42 | : | | | | | | | : | - |
| LpMDHh43 | : | | | | | | | : | - |
| LoMDHh44 | : | | | | | | | : | - |
| LpMDHh45 | : | | | | | | | : | - |
| LpMDHh46 | : | | | | | | | : | - |
| LpMDHh47 | | | | | | | | : | - |
| LpMDHh48 | - 1 | | | | | | | : | - |
| LpMDHh49 | | | | | | | | | _ |
| LpMDHh50 | - 1 | | | | | | | ÷ | _ |
| LpMDHh51 | | | | | | | | ÷ | _ |
| LpMDHh52 | ÷ | | | | | | | : | _ |
| LpMDHh53 | | | | | | | | : | |
| LpMDHh54 | ÷ | | | | | | | : | |
| LpMDHh55 | ÷ | GEVICADE GROOM | | | | | | ; | 734 |
| | | | | | | | | : | 705 |
| LpMDHh56 | : | CATE | | | | | | : | /05 |
| LpMDHh57 | : | GAVICANA COR GAVIGUE GOA | | | | | | : | 563 |
| LpMDHh58 | : | | | | | | | : | |
| LpMDHn59 | : | CATGANACTCATCTCCAC | | | | | | : | 545 |
| LpMDHh60 | : | CATGAAACTCATCTCCAC | | | | | | : | 509 |
| LpMDHh61 | : | CATGAAACTCATCTCCAC | | | | | | : | 504 |
| LpMDHh62 | : | CATGAAACTCATCTCCAC | | | | | | : | 213 |
| LpMDHh63 | : | CATGAAACTCATCTCCAC | TCAGAACAGTTG | CACATCG | CGGTGCCTTTAGC | TGGTT | TTTCCAG | : | 162 |



| | | * | 1320 | * | 1340 | * | 1360 | | |
|----------------------|-----|--------------|---------------|---------|-------------|--------|------------|---|----|
| LpMDHh1 | : | | | | | | | : | |
| LpMDHh2 | : | | | | | | | : | |
| LpMDHh3 | : | | | | | | | : | |
| LpMDHh4 | : | | | | | | | : | |
| LpMDHh5 | : | | | | | | | : | |
| LpMDHh6 | : | | | | | | | : | |
| LpMDHh7 | : | | | | | | | : | |
| LpMDHh8 | : | | | | | | | : | |
| LpMDHh9 | : | | | | | | | : | |
| LpMDHh10 | : | | | | | | | : | |
| LpMDHh11 | : | | | | | | | : | |
| LpMDHh12 | : | | | | | | | ; | |
| LpMDHh13 | : | | | | | | | : | |
| LpMDHh14 | : | | | | | | | ; | |
| LpMDHh15 | : | | | | | | | : | |
| LpMDHh16 | : | | | | | | | : | |
| LpMDHh17 | : | | | | | | | : | |
| LpMDHh18 | : | | | | | | | : | |
| LpMDHh19 | : | | | | | | | : | |
| LpMDHh20 | : | | | | | | | : | |
| LpMDHh21 | : | | | | | | | : | |
| LpMDHh22 | : | | | | | | | : | |
| LpMDHh23 | ٠ | | | | | | | : | |
| LpMDHh24 | | | | | | | | : | |
| LpMDHh25 | : | | | | | | | : | |
| LpMDHh26 | | | | | | | | ٠ | |
| LpMDHh27 | : | | | | | | | : | |
| LpMDHh28 | ٠ | | | | | | | • | |
| LpMDHh29 | : | | | | | | | : | |
| LpMDHh30 | | | | | | | | 1 | |
| LpMDHh31 | : | | | | | | | • | |
| LpMDHh32 | : | | | | | | | • | |
| LpMDHh34 LpMDHh35 | : | | | | | | | : | |
| LpMDHh36 | - 1 | | | | | | | : | |
| LpMDHh37 | • | | | | | | | | |
| LpMDHh38 | : | | | | | | | : | |
| LpMDHh39 | : | | | | | | | i | |
| LpMDHh40 | : | | | | | | | ; | |
| LpMDHh41 | ; | | | | | | | ÷ | |
| LpMDHh42 | | | | | | | | ÷ | |
| LpMDHh43 | : | | | | | | | ÷ | |
| LpMDHh44 | | | | | | | | | |
| LpMDHh45 | - 0 | | | | | | | i | |
| LpMDHh46 | - ; | | | | | | | i | |
| LpMDHh47 | ÷ | | | | | | | | |
| LpMDHh48 | į. | | | | | | | | |
| LpMDHh49 | ÷ | | | | | | | | |
| LpMDHh50 | | | | | | | | : | |
| LpMDHh51 | | | | | | | | : | |
| LpMDHh52 | | | | | | | | : | |
| LpMDHh53 | | | | | | | | : | |
| LpMDHh54 | | | | | | | | : | |
| LpMDHh55 | : | | | | | | | : | |
| LpMDHh56 | : | | | | | | | : | |
| LpMDHh57 | : | | | | | | | : | |
| LpMDHh58 | | | GAACAATTTGACG | | | | CC GTGTGTA | : | 68 |
| LpMDHh59 | | | GAACAATTTGACC | | | | | : | 64 |
| LpMDHh60 | : | | GAACÁATTTGACO | | | | | : | 63 |
| LpMDHh61 | : | | GAACAATTTGACG | | | | | : | 61 |
| LpMDHh62 | | | GAACAATTTGACO | | | | | : | 33 |
| LpMDHh63 | | GCAGGAAGATTG | GAACAATTTGACG | TCTGA | AAAA - AAAA | | | : | 26 |
| LoMDHh64 | | GCAGGAAGATTG | GAACAATTTGACG | TCTGAT' | PAAAACCAAC | #167AF | CCTCTCTCTA | | 11 |

| | | * | 1380 | * | 1400 | * | 1420 | | |
|----------------------|-----|-------------|------------|--------------------|--------------------|-------------|------------------|-----|--------|
| LpMDHh1 | : | | | | | | | : | - |
| LpMDHh2 | : | | | | | | | : | - |
| LpMDHh3 | : | | | | | | | : | - |
| LpMDHh4 | | | | | | | | | - |
| LpMDHh5 | | | | | | | | | - |
| LpMDHh6 | | | | | | | | | - |
| LpMDHh7 | | | | | | | | | - |
| LpMDHh8 | i | | | | | | | i | _ |
| LpMDHh9 | | | | | | | | | _ |
| LpMDHh10 | | | | | | | | | _ |
| LpMDHh11 | : | | | | | | | : | _ |
| LpMDHh12 | : | | | | | | | : | - |
| LpMDHh13 | ÷ | | | | | | | : | _ |
| LpMDHh14 | : | | | | | | | : | |
| LpMDHh115 | : | | | | | | | : | _ |
| LpMDHh16 | ٠ | | | | | | | | - |
| | • | | | | | | | • | - |
| LpMDHh17 | ٠ | | | | | | | | - |
| LpMDHh18 | : | | | | | | | | - |
| LpMDHh19 | : | | | | | | | | - |
| LpMDHh20 | : | | | | | | | | - |
| LpMDHh21 | : | | | | | | | | - |
| LpMDHh22 | : | | | | | | | : | - |
| LpMDHh23 | : | | | | | | | | - |
| LpMDHh24 | : | | | | | | | | - |
| LpMDHh25 | : | | | | | | | | - |
| LpMDHh26 | : | | | | | | | | - |
| LpMDHh27 | : | | | | | | | | - |
| LpMDHh28 | : | | | | | | | : | - |
| LpMDHh29 | : | | | | | | | . : | - |
| LpMDHh30 | : | | | | | | | : | - |
| LpMDHh31 | : | | | | | | | | - |
| LpMDHh32 | : | | | | | | | | - |
| LpMDHh34 | : | | | | | | | : | - |
| LpMDHh35 | : | | | | | | | : | - |
| LpMDHh36 | : | | | | | | | | - |
| LpMDHh37 | | | | | | | | | _ |
| LpMDHh38 | : | | | | | | | | - |
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| LpMDHh40 | ÷ | | | | | | | | - |
| LpMDHh41 | ÷ | | | | | | | | _ |
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| LpMDHh43 | - ; | | | | | | | . ; | _ |
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| LpMDHh46 | : | | | | | | | . : | _ |
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| LpMDHh48 | : | | | | | | | : : | _ |
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| LpMDHh51 | : | | | | | | | . : | - |
| LpMDHh52 | : | | | | | | | . : | - |
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| LpMDHh54 | : | | | | | | | : | - |
| LpMDHh55 | : | | | | | | | . : | - |
| LpMDHh56 | : | | | | | | | . : | - |
| LpMDHh57 | : | | | | | | | | - |
| LpMDHh58 | : | TGAATGA | GGCTTTTGT. | AGCTCTATTT | CCCCTGATGAT | TTACAGGCCA | TGATATTGGCAGG | . : | 748 |
| LpMDHh59 | : | | | | | | | : | - |
| LpMDHh60 | : | TGAATGA | GGCTTTTGT. | AGCTCTATTT | PCCCCTGATGAT | TTACAGGCCA | TGATATTGGCAGG | : | 695 |
| LpMDHh61 | : | | | | | | | : | - |
| LpMDHh62 | : | TGAATGA | CCCTTTTGT. | AGCTCTATTT: | PCCCCTGATGAT | TTACACCACA | TGATATTGGCAGG | : | 399 |
| LpMDHh63 | : | | | | | | | : | - |
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| LpMDHh29 | t | | | | | | |
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| LpMDHh35 | i | | | | | | |
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| LpMDHh63 | i | 23/17/4/4/5/17 | 243625 | EN . | | | |
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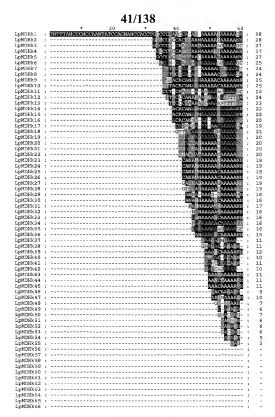


FIGURE 7

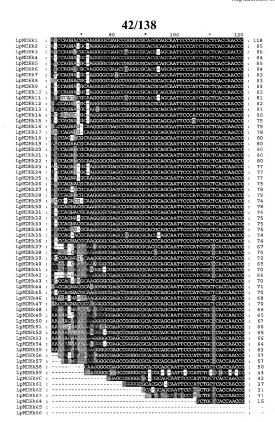


FIGURE 7 (cont.)

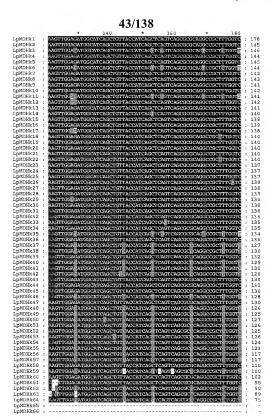


FIGURE 7 (cont.)

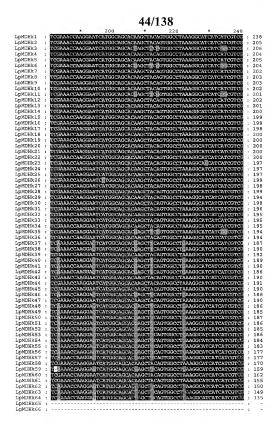


FIGURE 7 (cont.)

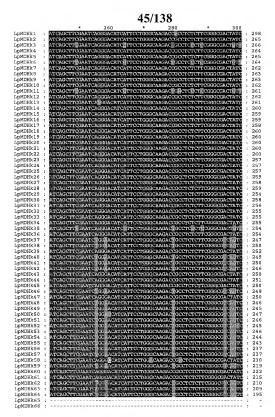


FIGURE 7 (cont.)

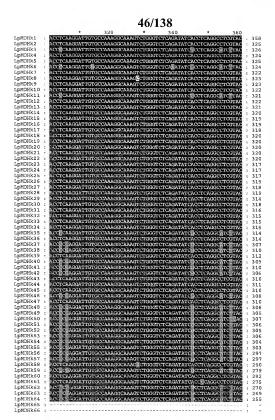


FIGURE 7 (cont.)

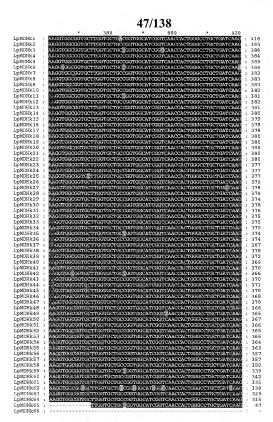


FIGURE 7 (cont.)

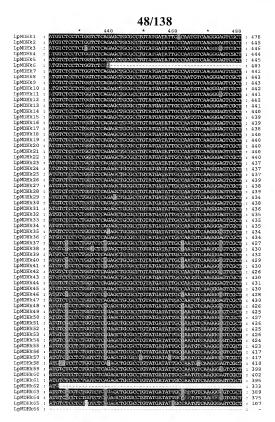


FIGURE 7 (cont.)

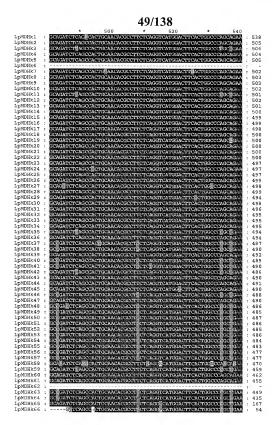


FIGURE 7 (cont.)

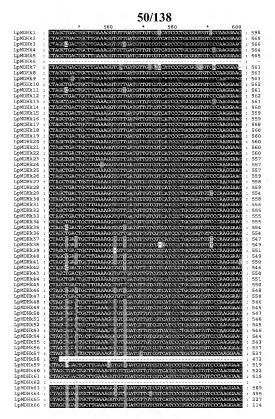


FIGURE 7 (cont.)

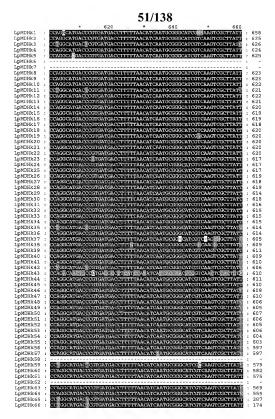


FIGURE 7 (cont.)

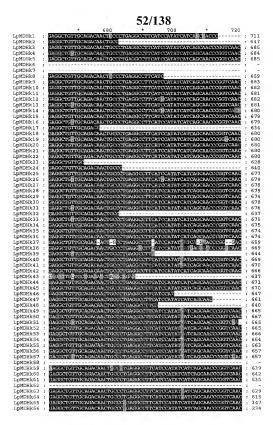


FIGURE 7 (cont.)

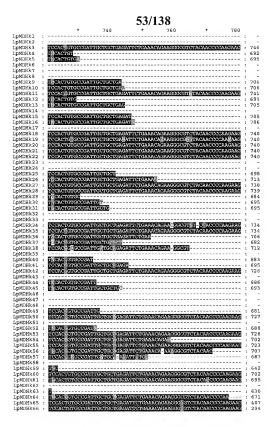


FIGURE 7 (cont.)

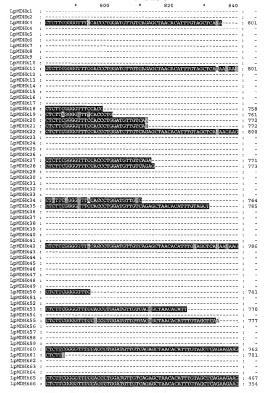
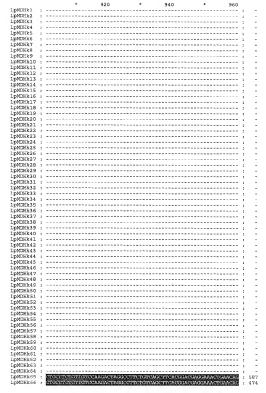


FIGURE 7 (cont.)

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FIGURE 7 (cont.)



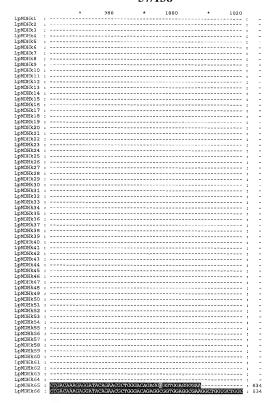


FIGURE 7 (cont.)

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| LpMDHk50 | : | | : | - |
| LpMDHk51 | : | | : | - |
| LpMDHk52 | : | | : | - |
| LpMDHk53 | : | | : | - |
| LpMDHk54 | : | | : | - |
| LpMDHk55 | : | | : | - |
| LpMDHk56 | : | *************************************** | : | - |
| LpMDHk57 | : | | : | - |
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| LpMDHk59 | : | | : | - |
| LpMDHk60 | : | | : | - |
| LpMDHk61 | ; | | : | - |
| LpMDHk62 | : | | : | - |
| LpMDHk63 | ı | ••••• | : | - |
| LpMDHk64 | : | | : | - |
| LpMDHk65 | : | AGAMMATMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA | : | - |
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| LpMDHk1 | : | | : | - |
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| LpMDHk2 | : | | | _ |
| LpMDHk3 | : | | ÷ | _ |
| LpMDHk4 | ÷ | | i | _ |
| LpMDHk5 | ÷ | | : | - |
| LpMDHk6 | : | | : | |
| LpMDHk7 | | | : | |
| LpMDHk8 | • | | : | |
| LpMDHk9 | • | | | - |
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| LpMDHk10 | : | | ٠. | - |
| LpMDHk11 | : | | : | - |
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| LpMDHk16 | : | | : | - |
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| LpMDHk20 | | | ; | _ |
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| LpMDHk23 | i | | : | _ |
| LpMDHk24 | : | | : | _ |
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| LpMDHk26 | : | | : | |
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| LpMDHk28 | : | | : | - |
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| LpMDHk47 | : | | ÷ | _ |
| LpMDHk48 | ÷ | | : | |
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| LpMDHk50 | ÷ | | : | _ |
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| LpMDHk1 | : | | : | ~ |
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| LpMDHk26 | : | | : | - |
| LpMDHk27 | : | | : | - |
| LpMDHk28 LpMDHk29 | : | | : | - |
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| LpMDHk30 | : | | : | - |
| LnMDHk31 | : | | : | |
| LpMDHk32 | : | | : | - |
| LpMDHk33 | : | | : | - |
| LpMDHk34 LpMDHk35 | : | | : | - |
| LpMDHk35 | : | | : | - |
| LpMDHk36 | : | | : | - |
| LpMDHk37 | : | | : | - |
| LpMDHk38 | : | | : | - |
| LpMDHk39 | : | | : | - |
| LpMDHk40 | : | | : | - |
| LpMDHk41 | : | | : | - |
| LpMDHk42 | : | | : | - |
| LpMDHk43 | : | | : | - |
| LpMDHk44 | : | | : | - |
| LpMDHk45 | : | | : | - |
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| LpMDHk47 | : | | : | - |
| LpMDHk48 | ; | | : | - |
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| LpMDHk64 | : | | : | - |
| LpMDHk65 | : | AAG | ٠ | 7777 |
| LpMDHk66 | : | era(c | : | 777 |
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FIGURE 7 (cont.)

| LpPEPCb1 : | GAAGAAGTTGCTGATGTTTTAAGAACATTTNTGTCCTTGCAGAGCTCCCAGCAGATTGTT | : | 60 |
|------------|--|---|-----|
| LpPEPCb3 : | | : | |
| LpPEPCb4 | | : | |
| LpPEPCb5 | | ÷ | |
| LpPEPCb6 | | | |
| превесое : | | : | - |
| | | | |
| | * 80 * 100 * 120 | | |
| LpPEPCb1 : | * 80 * 100 * 120 TYGGTGGTTAGATGTGAAGGGAAGTGCCCCCATGTGAGGTTTGCTGTTGAGGTTT | | 120 |
| | TIGGIGCTIACATCATCTCAAIGGCAACTGCCCCATCTGATGTGCTTTGCTGTTGAGCTTT | ٠ | 120 |
| LpPEPCb2 : | | : | - |
| LpPEPCb3 | | : | - |
| LpPEPCb4 | | : | - |
| LpPEPCb5 : | | : | - |
| LpPEPCb6 | *************************************** | : | - |
| | | | |
| | | | |
| InDEDOM: | * 140 * 160 * 180 TGCAGCGGGAGTGCGATATAAAAAGCCATTGGAGAGTTGTTCCACTATTTGAAAAGGTTG | | 100 |
| LpPEPCb1 : | EGCAGGGGGAGTGCCTTATAAAAAAGCCATTGAGAGTTGTTCCACTATTTGAAAAGCTTE | : | 180 |
| LpPEPCb2 : | | : | - |
| LpPEPCb3 : | | : | - |
| LpPEPCb4 | | : | - |
| LpPEPCb5 : | | : | - |
| LpPEPCb6 : | | : | - |
| | | | |
| | | | |
| | * 200 * 220 * 240 | | |
| LpPEPCb1 : | CAGATCTTGAANCAGCTCCAGCATCTGTTGCACGACTATTTTCAATAGACTGGTACATGA | : | 240 |
| LpPEPCb2 : | | : | - |
| LpPEPCb3 : | | : | - |
| LpPEPCb4 | | | - |
| LpPEPCb5 | | : | - |
| LpPEPCb6 | | : | _ |
| aprai ob o | | • | |
| | | | |
| | * 260 * 280 * 300 | | |
| LpPEPCb1 : | ATAGAAT CAATGGCAAGCAGGAGGTCATGATTGGATACTCAGACTCTGGGAAGGACGCTC | | 300 |
| LpPEPCb2 : | | : | |
| LpPEPCb3 | | | - |
| LpPEPCb4 | | : | _ |
| LpPEPCb5 | | : | |
| LpPEPCb6 | | : | |
| DPFEFCEO . | | ٠ | - |
| | | | |
| | * 320 * 340 * 360 | | |
| LpPEPCb1 : | GGCGTCTCTCTGCAGCGTGGCAAATGTATAAAGCACAAGAAGATCTCATAAAGGTGGCAA | : | 360 |
| LpPBPCb2 | GTATAAAGCACAAGAAGATCTCATAAAGGTGGCAA | : | 35 |
| LpPEPCb3 | | : | |
| LpPEPCb4 | | | _ |
| LpPEPCb5 | | : | - |
| | | ٠ | - |
| LpPEPCb6 : | | : | - |
| | | | |
| | * 360 * 400 * 420 | | |
| LpPEPCb1 | AGCAATATGGAGTAAAGTTAACAATGTTTCATGGAAGAGGTGGAACGGTTGGCAGAGGAC | | 420 |
| LpPEPCb2 | AGCAATATGGAGTAAAGTTAACAATGTTTCATGGAAGAGGTGGAACGGTTGGCAGAGGAG | : | 95 |
| LpPEPCb3 | AATGTTT-NTGGAAGAGGTGGAACGCTTGGCAGAGGAC | : | 37 |
| LpPEPCb4 | - ALTO THE STATE OF THE STATE O | | 9 |
| LDPEPCD4 : | | : | 9 |
| LDPEPCD5 : | | : | - |

FIGURE 8

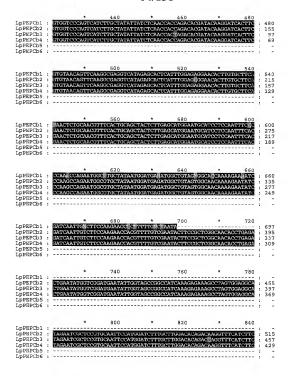


FIGURE 8 (cont.)

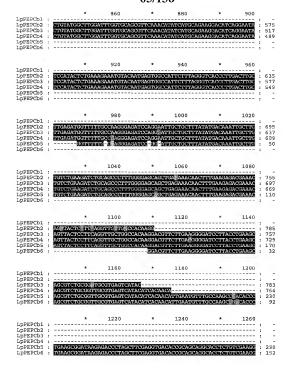


FIGURE 8 (cont.)

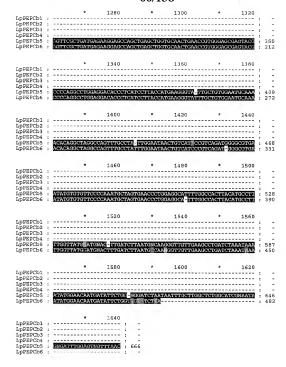


FIGURE 8 (cont.)

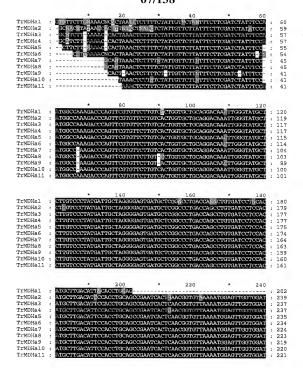


FIGURE 9

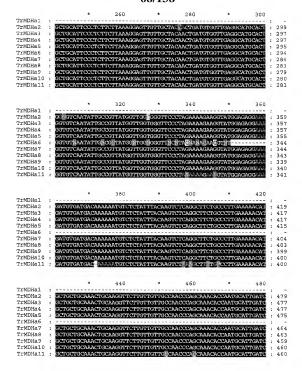


FIGURE 9 (cont.)

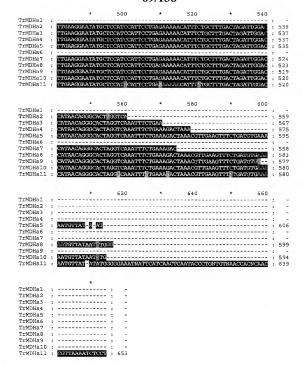
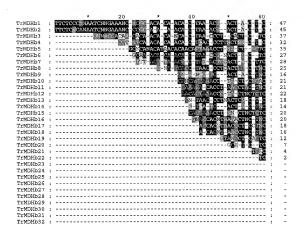
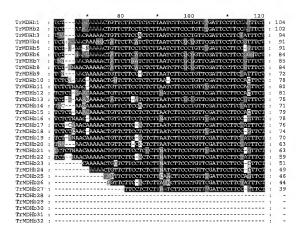
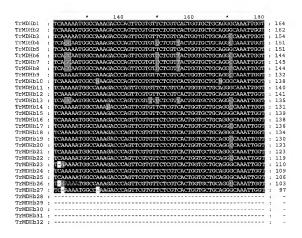
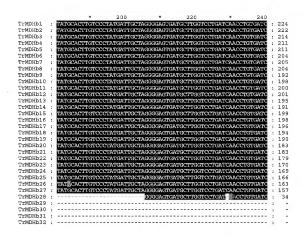


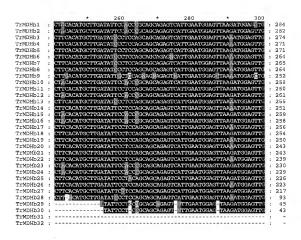
FIGURE 9 (cont.)

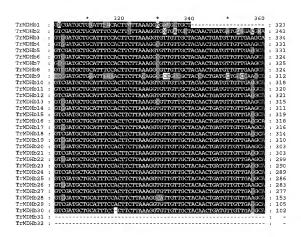


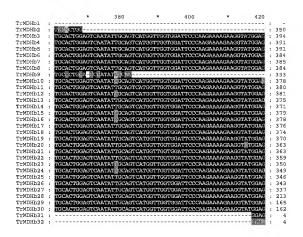


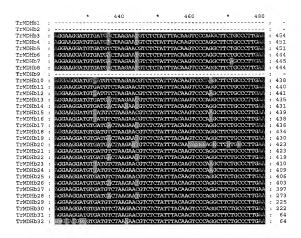


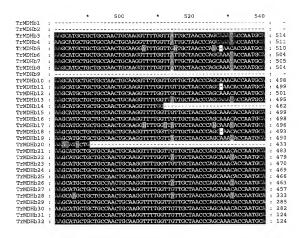


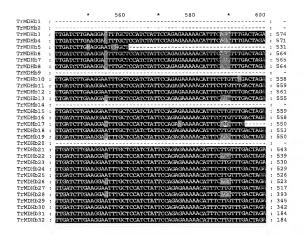












| | | | * | 620 | * | 640 | * 660 | | |
|----------|---|---------|-----------|----------------|----------|------------------|--------------|---|-----|
| TrMDHb1 | : | | | | | | | : | - |
| TrMDHb2 | : | | | | | | | : | - |
| TrMDHb3 | : | CTTGAT | CACAR | | | | | : | 585 |
| TrMDHb4 | : | CTTGAT | CACAACAGG | CATTGG | | | | : | 593 |
| TrMDHb5 | : | | | | | | | : | - |
| TrMDHb6 | : | CTTGATO | CAC | | | | | : | 573 |
| TrMDHb7 | : | CTTGAT | CACAACAGG | GCATTGGGCCAAA | TTTCTGAA | AC | | : | 603 |
| TrMDHb8 | : | CTTGAT | CACAACAGG | GCATTGCGCCAAA' | INTEREST | | | : | 597 |
| TrMDHb9 | : | | | | | | | : | - |
| TrMDHb10 | : | CTTGAT | CAC | | | | | : | 567 |
| TrMDHb11 | : | CITGAT | CAC | | | | | : | 569 |
| TrMDHb12 | : | CTTGAT | CACAACAGG | GCATTGGGCCAAA | NINI | | | : | 592 |
| TrMDHb13 | : | CTTGATO | CACAACAGG | GCATTGGGCCAAA | (F) | | | : | 585 |
| TrMDHb14 | : | | | | | | | : | - |
| TrMDHb15 | : | CTTGAT | CACAACAG- | | | | | : | 573 |
| TrMDHb16 | : | CTTGATO | CACAACAGG | GCATTGGGCCAAA | TTTCTGAA | TIVAYAYD TUTANDA | | : | 603 |
| TrMDHb17 | : | | | | | | | : | - |
| TrMDHb18 | : | CTTGAT | CACAACAGG | GCATTGGGCCAAA | TTTCTGAA | AC | | : | 591 |
| TrMDHb19 | : | CTTGAT | CACAACAGG | CATTC | | | | : | 571 |
| TrMDHb20 | : | | | | | | | : | - |
| TrMDHb21 | : | | | GCATTGGGCCAAA | | | | : | 585 |
| TrMDHb22 | : | CTTGATO | CACAACAGG | GCATTGGGCCAAA | TTTCTGAA | AGATTGAATATT | CAAGITICIGAT | : | 599 |
| TrMDHb23 | : | CTTGAT | CACAACAGG | CATTGGGCCAAA | TTTCTGAA | AC | | : | 568 |
| TrMDHb24 | : | CTTGATO | CACAACAGG | GCATTGGGCCAAA | 1 | | | : | 558 |
| TrMDHb25 | : | | | GCATTGGGCCAAA | | | | | 586 |
| TrMDHb26 | : | | | GCATTGGGCCAAA | | | | : | 583 |
| TrMDHb27 | : | | | GCATTGGGCCAAA | | | | : | 573 |
| TrMDHb28 | : | | | GCATTGGGCCAAA | | | | 1 | 453 |
| TrMDHb29 | : | | | GCATTGNGCCAAA | | | | | 405 |
| TrMDHb30 | : | CTTGAT | CACAACAGG | GCATTGGGCCAAA | TTTCTGAA | AGATTGAATGTC | CAAGTTTCTGAT | : | 402 |
| TrMDHb31 | : | CTTGAT | CACAACAGG | GCATTGGGCCAAA | TTTCTGAA | AGATTGAATGTT | CAAGTTTCTGAT | : | 244 |
| TrMDHb32 | : | CTTGAT | CACAACAGG | GCATTGGGCCAAA | TTTCTGAA | AGATTGAATGTT | CAAGTTTCTGAT | | 244 |

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|----------|---|--------------------|-------------|----------|-------------|-------------|-----|-----|
| TrMDHb1 | : | | | | | | | - |
| TrMDHb2 | : | | | | | | | - |
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| TrMDHb18 | : | | | | | | . : | - |
| TrMDHb19 | : | | | | | | : | - |
| TrMDHb20 | : | | | | | | : | - |
| TrMDHb21 | : | | | | | | . : | - |
| TrMDHb22 | : | GTAAAGAATGT | | | | | . : | 610 |
| TrMDHb23 | : | | | | | | . : | - |
| TrMDHb24 | : | | | | | | : | - |
| TrMDHb25 | : | GTAAAGAATGTCATTATC | TGGGGTAATCA | TTCATCAA | CTCAGTATCCT | ATGTCAACCA | : | 646 |
| TrMDHb26 | : | | | | | | : | - |
| TrMDHb27 | : | | | | | | : | - |
| TrMDHb28 | : | GTAAAGAATGTCATTATC | | | | | | 513 |
| TrMDHb29 | : | GTAAAGAATGTCATTATC | | | | | | 465 |
| TrMDHb30 | : | GTAAAGAATGTCATTATC | | | | | | 462 |
| TrMDHb31 | : | GTAAAGAATGTCATTATC | | | | | | 304 |
| TrMDHb32 | : | GTAAAGAATGTCATTATC | TGGGGTAATCA | TTCATCAA | CTCAGTATCCT | SATGTCAACCA | : | 304 |

| | | | * | 740 | * | 760 | * | 780 | | |
|----------|---|-----------|----------|---------------|----------|-------------|------------|------|---|---|
| TrMDHb1 | : | | | | | | | | : | |
| TrMDHb2 | : | | | | | | | | : | |
| TrMDHb3 | : | | | | | | | | : | |
| TrMDHb4 | : | | | | | | | | : | |
| TrMDHb5 | : | | | | | | | | | |
| TrMDHb6 | : | | | | | | | | : | |
| TrMDHb7 | : | | | | | | | | : | |
| TrMDHb8 | : | | | | | | | | : | |
| FrMDHb9 | : | | | | | | | | | |
| TrMDHb10 | : | | | | | | | | | |
| FrMDHb11 | | | | | | | | | | |
| FrMDHb12 | : | | | | | | | | | |
| TrMDHb13 | : | | | | | | | | | |
| FrMDHb14 | : | | | | | | | | | |
| "rMDHb15 | : | | | | | | | | | |
| rMDHb16 | : | | | | | | | | | |
| rMDHb17 | | | | | | | | | i | |
| rrMDHb18 | | | | | | | | | | |
| TrMDHb19 | : | | | | | - - | | | | |
| rrMDHb20 | | | | | | | . . | | ÷ | |
| FrMDHb21 | | | | | | | | | | |
| rMDHb22 | | | | | | | | | | |
| TrMDHb23 | | | | | | | | | ÷ | |
| rMDHb24 | | | | | | | | | ÷ | |
| TrMDHb25 | | GCAACTGTT | PAACACCC | CCCCTCGGGAGA | AGCCTGTC | CGTGAGCTTGT | TCTGATGA | 0000 | ÷ | 7 |
| TrMDHb26 | | | | | | | | | ÷ | ď |
| FrMDHb27 | | | | | | | | | : | |
| rMDHb28 | ÷ | GCAACTGTT | PAACACCO | CCGCCGGGGGAGA | AGCCTGTC | CCTCAACTTCT | Wi | | | 5 |
| rMDHb29 | | | | | | CGTGAGCTNGT | | | ÷ | 5 |
| TrMDHb30 | | | | | | CCTGACCTTCT | | caca | : | 5 |
| TrMDHb31 | | | | | | CGTGAGCTTGT | | | i | 3 |
| | | GCAACTGTT | | | | | | | | 3 |

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|----------|---|-------------------|--------------|----------|--------------|--------------|------------|-----|-----|
| TrMDHb1 | : | | | | | | - : | | - |
| TrMDHb2 | : | | | | | | - : | | - |
| TrMDHb3 | : | | | | | | - : | | - |
| TrMDHb4 | : | | | | | | - : | | - |
| TrMDHb5 | : | | | | | | - : | | - |
| TrMDHb6 | : | | | | | | - ; | | - |
| TrMDHb7 | : | | | | | | - ; | | - |
| TrMDHb8 | : | | | | | | - : | | - |
| TrMDHb9 | : | | | | | | : | | - |
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| TrMDHb12 | : | | | | | | - : | | - |
| TrMDHb13 | : | | | | | | - : | | - |
| TrMDHb14 | : | | | | | | - : | | - |
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| TrMDHb16 | : | | | | | | - : | | - |
| TrMDHb17 | : | | | | | | - : | | - |
| TrMDHb18 | : | | | | | | - : | | - |
| TrMDHb19 | : | | | | | | - : | | - |
| TrMDHb20 | : | | | | | | - : | | - |
| TrMDHb21 | : | | | | | | - : | | - |
| TrMDHb22 | : | | | | | | - : | | - |
| TrMDHb23 | : | | | | | | - : | | - |
| TrMDHb24 | : | | | | | | - : | | - |
| TrMDHb25 | : | TGGTTGAATGGAGAATT | CATATCTACCGI | TCAACAAC | CTCCTCCTC | | - : | - 5 | 752 |
| TrMDHb26 | t | | | | | | - : | | - |
| TrMDHb27 | : | | | | | | - : | | - |
| TrMDHb28 | : | | | | | | - : | | - |
| TrMDHb29 | : | | | | | | - : | | - |
| TrMDHb30 | : | TGGTTGAATGGAGAATT | CATATCTACCGI | TCAACAAC | GTGGTGCTGCA | ATTATTAAGG | ₩ : | 5 | 582 |
| TrMDHb31 | : | TGGTTGAATGGAGAATT | CATATCTACCGT | TCAACAAC | GTGGTGCTGCA/ | ATTATTAAGG | T : | 4 | 124 |
| TrMDHb32 | : | TGGTTGAATGGAGAATT | CATATCTACCGT | TCAACAAC | GTGGTGCTGCA | ATTATTAAGG | T : | - 4 | 124 |

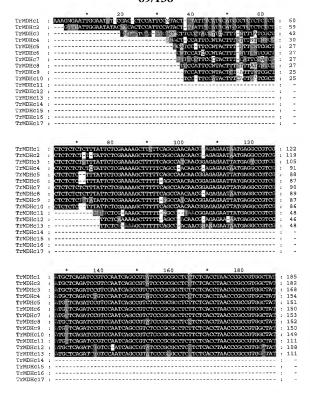
| | | * 8 | 60 | * | 880 | * | 900 | | |
|----------|---|--------------------|-------------|----------|--------------|----------|--------------|---|-----|
| TrMDHb1 | : | | | | | | | : | - |
| TrMDHb2 | : | | | | | | | : | - |
| TrMDHb3 | : | | | | | | | : | - |
| TrMDHb4 | : | | | | | | | : | - |
| TrMDHb5 | : | | | | | | | : | - |
| TrMDHb6 | : | | | | | | | : | - |
| TrMDHb7 | : | | | | | | | : | - |
| TrMDHb8 | : | | | | | | | : | |
| TrMDHb9 | : | | | | | | | : | - |
| TrMDHb10 | : | | | | | | | : | - |
| TrMDHb11 | : | | | | | | | : | - |
| TrMDHb12 | : | | | | | | | : | - |
| TrMDHb13 | : | | | | | | | : | - |
| TrMDHb14 | : | | | | | | | : | - |
| TrMDHb15 | : | | | | | | | : | - |
| TrMDHb16 | : | | | | | | | : | - |
| TrMDHb17 | : | | | | | | | : | - |
| TrMDHb18 | : | | | | | | | : | - |
| TrMDHb19 | : | | | | | | | : | - |
| TrMDHb20 | : | | | | | | | : | - |
| TrMDHb21 | : | | | | | | | : | - |
| TrMDHb22 | : | | | | | | | : | - |
| TrMDHb23 | : | | | | | | | : | - |
| TrMDHb24 | : | | | | | | | : | - |
| TrMDHb25 | : | | | | | | | : | - |
| TrMDHb26 | : | | | | | | | : | |
| TrMDHb27 | : | | | | | | | : | - |
| TrMDHb28 | : | | | | | | | : | - |
| TrMDHb29 | : | | | | | | | : | - |
| TrMDHb30 | : | AGAAAGCTTTCAACTG | | | | | | : | 598 |
| TrMDHb31 | : | AGAAAGCTTTCAAGCGCA | | | | | | : | 484 |
| TrMDHb32 | : | AGAAAGCTTTCAAGCGCA | CTATCCGCTGC | TAGCGCTC | CTTGCGACCACA | TTCGCGA' | ΓTGG | : | 484 |

| | | | 920 | * | 940 | | 960 | | |
|----------|---|---------------|-------------|-----------|--------------|----------|---------|---|----|
| TrMDHb1 | : | | | | | | | : | |
| TrMDHb2 | : | | | | | | | : | |
| TrMDHb3 | : | | | | | | | : | |
| TrMDHb4 | : | | | | | | | : | |
| TrMDHb5 | : | | | | | | | : | |
| TrMDHb6 | : | | | | | | | : | |
| TrMDHb7 | : | | | | | | | : | |
| TrMDHb8 | : | | | | | | | : | |
| TrMDHb9 | : | | | | | | | : | |
| TrMDHb10 | : | | | | | | | : | |
| TrMDHb11 | : | | | | | | | : | |
| TrMDHb12 | : | | | | | | | : | |
| TrMDHb13 | : | | | | | | | : | |
| TrMDHb14 | : | | | | | | | : | |
| TrMDHb15 | : | | | | | | | : | |
| TrMDHb16 | : | | | | | | | : | |
| TrMDHb17 | : | | | | | | | : | |
| TrMDHb18 | : | | | | | | | : | |
| TrMDHb19 | : | | | | | | | : | |
| TrMDHb20 | : | | | | | | | : | |
| TrMDHb21 | : | | | | | | | : | |
| TrMDHb22 | : | | | | | | | : | |
| TrMDHb23 | : | | | | | | | : | |
| TrMDHb24 | | | | | | | | : | |
| TrMDHb25 | : | | | | | | | : | |
| TrMDHb26 | : | | | | | | | : | |
| TrMDHb27 | | | | | | | | : | |
| TrMDHb28 | | | | | | | | : | |
| TrMDHb29 | : | | | | | | | : | |
| TrMDHb30 | | | | | | | | : | |
| TrMDHb31 | | GTTCTTGGAACTC | CCCAGGGCACC | TTCGTTTCA | ATGGGAGTGTAT | TCTGATGG | TTCTTAC | | 54 |
| TrMDHb32 | | GTTCTTGGAACTC | CCCAGGGCACC | TTCGTTTCA | ATGGGAGTGTAT | TCTGATGG | TTCTTAC | | 54 |

| | | * 980 | * | 1000 | * | 1020 | | |
|----------|---|-----------------------|---------------|---------------|----------|----------|---|-----|
| TrMDHb1 | : | | | | | | : | - |
| TrMDHb2 | : | | | | | | : | - |
| TrMDHb3 | : | | | | | | : | - |
| TrMDHb4 | : | | | | | | : | - |
| TrMDHb5 | : | | | | | | : | - |
| TrMDHb6 | : | | | | | | : | - |
| TrMDHb7 | : | | | | | | : | - |
| TrMDHb8 | : | | | | | | : | - |
| TrMDHb9 | : | | | | | | : | - |
| TrMDHb10 | : | | | | | | : | - |
| TrMDHb11 | : | | | | | | : | - |
| TrMDHb12 | : | | | | | | : | - |
| TrMDHb13 | : | | | | | | : | - |
| TrMDHb14 | : | | | | | | : | - |
| TrMDHb15 | : | | | | | | : | - |
| TrMDHb16 | : | | | | | | : | - |
| TrMDHb17 | : | | | | | | : | - |
| TrMDHb18 | : | | | | | | : | - |
| TrMDHb19 | : | | | | | - | : | - |
| TrMDHb20 | : | | | | | | : | - |
| TrMDHb21 | : | | | | | | : | - |
| TrMDHb22 | : | | | | | | : | - |
| TrMDHb23 | : | | | | | | : | - |
| TrMDHb24 | : | | | | | | : | - |
| TrMDHb25 | : | | | | | | : | - |
| TrMDHb26 | : | | | | | | : | - |
| TrMDHb27 | : | | | | | | : | - |
| TrMDHb28 | : | | | | | | : | - |
| TrMDHb29 | : | | | | | | : | - |
| TrMDHb30 | : | | | | | | : | - |
| TrMDHb31 | : | AACGTACCAGCTGGACTCATC | TATTCATTCCCTG | TCACCACTGCTAA | TGGGGAAT | GGAA- | : | 603 |
| TrMDHb32 | : | AACGTACCAGCTGGACTCATC | TATTCATTCCCTG | PCACCACTGCTAA | IGGGGAAT | GGAAA | : | 604 |

| | | * | 1040 | * | 1060 | * | 1080 | | |
|----------|---|------------------|---------------|---------|----------------|---------|------|---|-----|
| TrMDHb1 | : | | | | | | | : | - |
| TrMDHb2 | : | | | | | | | : | - |
| TrMDHb3 | : | | | | | | | : | - |
| TrMDHb4 | : | | | | | | | : | - |
| TrMDHb5 | : | | | | | | | : | - |
| TrMDHb6 | : | | | | | | | : | - |
| TrMDHb7 | : | | | | | | | : | - |
| TrMDHb8 | : | | | | | | | : | - |
| TrMDHb9 | : | | | | | | | : | - |
| TrMDHb10 | : | | | | | | | : | - |
| TrMDHb11 | : | | | | | | | : | - |
| TrMDHb12 | : | | | | | | | : | - |
| TrMDHb13 | : | | | | | | | : | - |
| TrMDHb14 | : | | | | | | | : | - |
| TrMDHb15 | : | | | | | | | : | - |
| TrMDHb16 | : | | | | | | | : | - |
| TrMDHb17 | : | | | | | | | : | - |
| TrMDHb18 | : | | | | | | | : | - |
| TrMDHb19 | : | | | | | | | : | - |
| TrMDHb20 | : | | | | | | | : | - |
| TrMDHb21 | : | | | | | | | : | - |
| TrMDHb22 | : | | | | | | | : | - |
| TrMDHb23 | : | | | | | | | : | - |
| TrMDHb24 | : | | | | | | | : | - |
| TrMDHb25 | : | | | | | | | : | - |
| TrMDHb26 | : | | | | | | | : | - |
| TrMDHb27 | : | | | | | | | : | - |
| TrMDHb28 | : | | | | | | | : | - |
| TrMDHb29 | : | | | | | | | : | - |
| TrMDHb30 | : | | | | | | | : | - |
| TrMDHb31 | : | | | | | | | : | - |
| TrMDHb32 | : | ATTGTTCAAGGACTTT | CAATTGACGAGTT | CTCAAGO | BAAGAAGTTGGACT | TGACAGO | TGAA | : | 664 |

| | | | * | 1 | 100 | | * | | |
|----------|---|----------|------|-------|------|-------|-------|---|----|
| TrMDHb1 | : | | | | | | | : | |
| TrMDHb2 | : | | | | | | | : | |
| TrMDHb3 | : | | | | | | | : | |
| TrMDHb4 | : | | | | | | | : | - |
| TrMDHb5 | : | | | | | | | : | - |
| TrMDHb6 | : | | | | | | | : | |
| TrMDHb7 | : | | | | | | | : | - |
| TrMDHb8 | : | | | | | | | : | - |
| TrMDHb9 | : | | | | | | | : | |
| TrMDHb10 | : | | | | | | | ; | |
| TrMDHb11 | : | | | | | | | : | |
| TrMDHb12 | : | | | | | | | : | |
| TrMDHb13 | : | | | | | | | : | |
| TrMDHb14 | : | | | | | | | : | |
| TrMDHb15 | : | | | | | | | ; | |
| TrMDHb16 | : | | | | | | | : | |
| TrMDHb17 | : | | | | | | | : | |
| TrMDHb18 | : | | | | | | | : | |
| TrMDHb19 | : | | | | | | | : | |
| TrMDHb20 | : | | | | | | | : | |
| TrMDHb21 | : | | | | | | | : | |
| TrMDHb22 | : | | | | | | | : | |
| TrMDHb23 | : | | | | | | | : | |
| TrMDHb24 | : | | | | | | | : | |
| TrMDHb25 | : | | | | | | | ; | |
| TrMDHb26 | : | | | | -, | | | : | |
| TrMDHb27 | : | | | | | | | : | |
| TrMDHb28 | : | | | | | | | : | |
| TrMDHb29 | : | | | | | | | : | |
| TrMDHb30 | : | | | | | | | : | |
| TrMDHb31 | : | | | | | | | : | |
| TrMDHb32 | : | GAGTTATC | CGAG | GAAAA | GAGT | TTGGC | ATACT | | 69 |



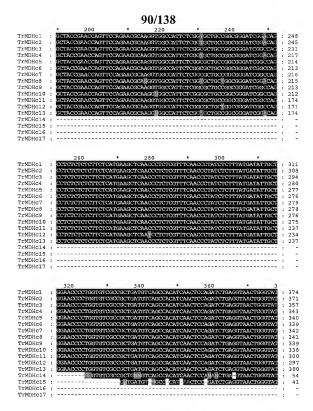


FIGURE 11 (cont.)

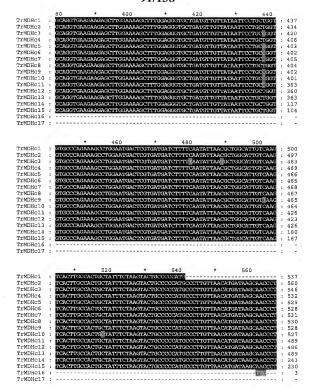


FIGURE 11 (cont.)

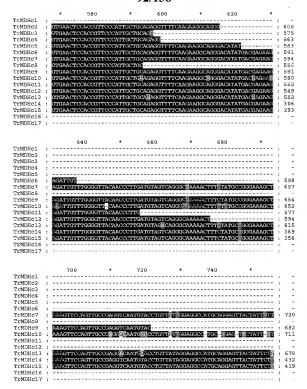


FIGURE 11 (cont.)

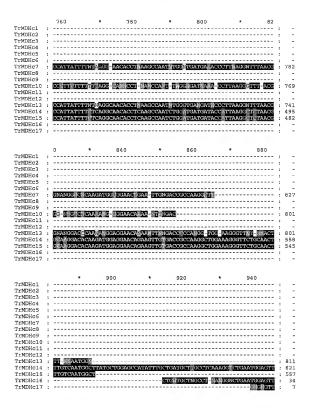
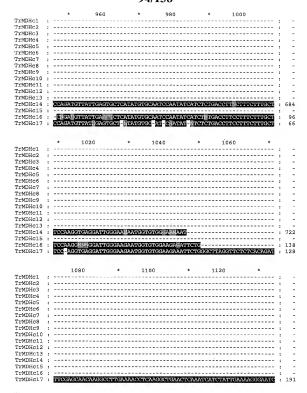


FIGURE 11 (cont.)



| | | 1140 | * | 1160 | * | 1180 | * . 1 | | |
|----------|---|----------------|---------|--------------|--------------|--------------|----------------|-----|-----|
| TrMDHc1 | ; | | | | | | | : | - |
| TrMDHc2 | : | | | | | - | | : | - |
| TrMDHc3 | , | | | | . | | | | _ |
| TrMDHc4 | | | | | | | | ÷ | |
| TrMDHc5 | : | | | | | | | ÷ | _ |
| TrMDHc6 | • | | | | | | | | _ |
| | : | | | | | | | : | - |
| TrMDHc7 | : | | | | | | | : | - |
| TrMDHc8 | : | | | | | | | : | - |
| TrMDHc9 | : | | | | | | | : | - |
| TrMDHc10 | : | | | | | | | : | - |
| TrMDHc11 | : | | | | | | | : | - |
| TrMDHc12 | | | | | | | | | - |
| TrMDHc13 | : | | | | | | | : | _ |
| TrMDHc14 | • | | | | | | | ; | |
| | ٠ | | | | | | | | - |
| TrMDHc15 | ٠ | | | | | | | : | - |
| TrMDHc16 | : | | | | | | | : | - |
| TrMDHc17 | : | MATTTGCCTCCCA | STAATCG | AACATGTCATAC | ATTACTG | GATTTTTCCA | TTTAGAACCAGAT | : | 254 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | 200 * | 12: | 20 * | , 1 | 240 | * 1260 | | |
| TrMDHc1 | | | | | | | | : | - |
| TrMDHc2 | | | | | | | | | _ |
| TrMDHc3 | : | | | | | | | ; | _ |
| TrMDHc4 | : | | | | | | | : | _ |
| TrMDHc4 | • | | | | | | | | - |
| | : | | | | | | | : | - |
| TrMDHc6 | ٠ | | | | | | | : | - |
| TrMDHc7 | : | | | | | | | : | - |
| TrMDHc8 | : | | | | | | | : | - |
| TrMDHc9 | : | | | | | | | : | - |
| TrMDHc10 | : | | | | | | | : | - |
| TrMDHc11 | : | | | | | | | : | - |
| TrMDHc12 | : | | | | | | | : | _ |
| TrMDHc13 | | | | | | | | | _ |
| TrMDHc14 | , | | | | | | | + | _ |
| TrMDHc15 | | | | | | | | | - |
| TrMDHc16 | ÷ | | | | | | | ÷ | _ |
| TrMDHc17 | ÷ | CAAATTTTGCAAAT | TORONNO | | | | | 1 | 317 |
| IIMDHCI/ | • | CAAATTTTGCAAAT | ICAGAAC | MIIGIIIGIAA | AIGI1GCC | GGIMGGIMIA | CCCCIMOMITIME. | | 311 |
| | | | | | | | | | |
| | | | 1280 | | | | 1200 | | |
| | | * | 1280 | • | 1300 | • | 1320 | | |
| TrMDHc1 | : | | | | | | | : | - |
| TrMDHc2 | : | | | | | | | | - |
| TrMDHc3 | : | | | | | | | : | - |
| TrMDHc4 | : | | | | | | | : | - |
| TrMDHc5 | : | | | | | | | : | - |
| TrMDHc6 | : | | | | | | | : | - |
| TrMDHc7 | : | | | | | | | | - |
| TrMDHc8 | | | | | | | | | - |
| TrMDHc9 | ÷ | | | | | | | ÷ | _ |
| TrMDHc10 | : | | | | - | | | : | _ |
| TrMDHc11 | : | | | | | | | | |
| TrMDHc11 | : | | | | | | | | - |
| TrMDHc12 | • | | | | | | | : | - |
| | : | | | | | | | : | - |
| TrMDHc14 | : | | | | | | | : | - |
| TrMDHc15 | ; | | | | | | | : | - |
| TrMDHc16 | : | | | | | | | . : | - |
| TrMDHc17 | | TAAGTAAATCTGCG | AGAGCAG | TTTATTGCTGC | AGGGACTO | BAAATTAAAA | CAGTTTTAGGTTG | | 380 |

| | | * | 1340 | * | 1360 | * | 1380 | | |
|----------|---|-------------|--------------|----------|----------|---------------|------------|---|-----|
| TrMDHc1 | : | | | | | | | : | - |
| TrMDHc2 | : | | | | | | | : | - |
| TrMDHc3 | : | | | | | | | : | - |
| TrMDHc4 | : | | | | | | | : | - |
| TrMDHc5 | : | | | | | | | ; | - |
| TrMDHc6 | : | | | | | | | : | - |
| TrMDHc7 | : | | | | | | | : | - |
| TrMDHc8 | : | | | | | | | : | - |
| TrMDHc9 | : | | | | | | | : | - |
| TrMDHc10 | : | | | | | | | : | - |
| TrMDHc11 | : | | | | | | | : | - |
| TrMDHc12 | : | | | | | | | : | - |
| TrMDHc13 | : | | | | | | | : | - |
| TrMDHc14 | : | | | | | | | : | - |
| TrMDHc15 | : | | | | | | | : | - |
| TrMDHc16 | : | | | | | | | : | - |
| TrMDHc17 | : | GCCTTTCCAT: | CGTAATGGCCCT | TCATTGTT | CATGNTTT | CATATAATGCAAT | TGAAGGGTGN | : | 443 |
| | | | L400 | | | | | | |
| TrMDHc1 | : | | | : - | | | | | |
| TrMDHc2 | : | | | : - | | | | | |
| TrMDHc3 | : | | | : - | | | | | |
| TrMDHc4 | : | | | : - | | | | | |
| TrMDHc5 | : | | | : - | | | | | |
| TrMDHc6 | : | | | : - | | | | | |
| TrMDHc7 | : | | | : - | | | | | |
| TrMDHc8 | : | | | : - | | | | | |
| TrMDHc9 | : | | | : - | | | | | |
| TrMDHc10 | : | | | | | | | | |
| TrMDHc11 | : | | | | | | | | |
| TrMDHc12 | : | | | : - | | | | | |
| TrMDHc13 | : | | | : - | | | | | |
| TrMDHc14 | : | | | : - | | | | | |
| TrMDHc15 | : | | | : - | | | | | |
| TrMDHc16 | : | | | 1 | | | | | |
| TrMDHc17 | ; | TGGNCANCGA | FACACANCCCCC | : 465 | | | | | |

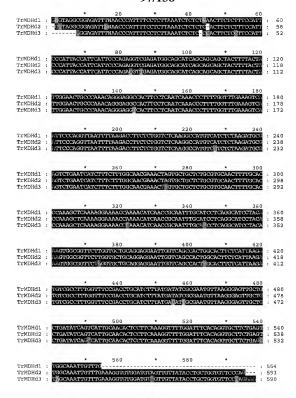
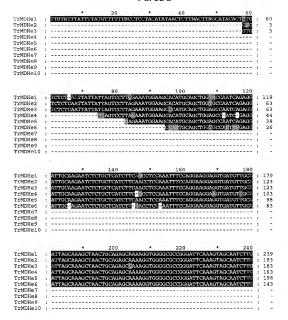


FIGURE 12



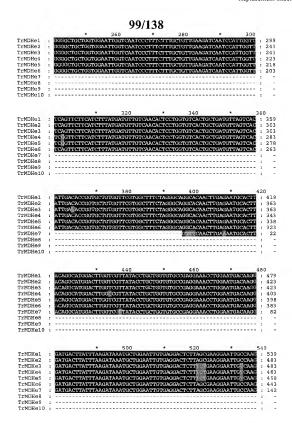


FIGURE 13 (cont.)

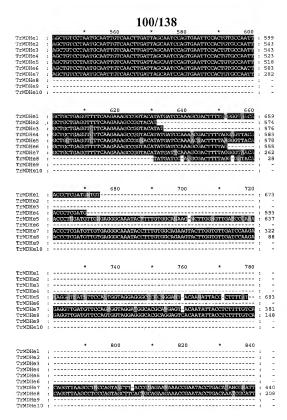


FIGURE 13 (cont.)

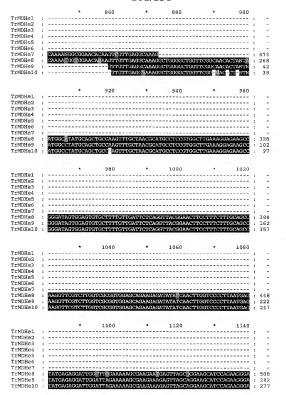


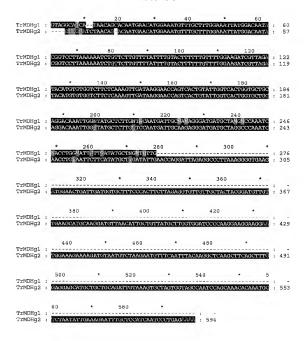
FIGURE 13 (cont.)

| | | * | 1160 | * | | 1180 | * | 1200 | | |
|----------|---|---------------|--------------|---------|----|-------------|-----------|----------------|---|-----|
| TrMDHe1 | : | | | | | | | | : | |
| TrMDHe2 | : | | | | | | | | : | - |
| TrMDHe3 | : | | | | | | | | : | - |
| TrMDHe4 | : | | | | | | | | : | - |
| TrMDHe5 | : | | | | | | | | : | - |
| TrMDHe6 | : | | | | | | | | : | - |
| TrMDHe7 | : | | | | | | | | : | - |
| TrMDHe8 | | GTAGAATTCATC | | | GΑ | AAAATTAGTTT | FGTATTGNC | FCTTTCT | : | 568 |
| TrMDHe9 | | GTAGAATTCATC | CAHAAAAANAA | | | | | | : | 306 |
| TrMDHe10 | : | GTAGAATTCATC | MAAAAAAA | | | | | | : | 299 |
| TrMDHe1 | : | * | 1220 | * | : | - | | | | |
| TrMDHe2 | ÷ | | | | | _ | | | | |
| TrMDHe3 | | | | | | - | | | | |
| TrMDHe4 | | | | | | - | | | | |
| TrMDHe5 | : | | | | : | - | | | | |
| TrMDHe6 | : | | | | : | - | | | | |
| TrMDHe7 | : | | | | : | - | | | | |
| TrMDHe8 | : | ATATCTATAAAG. | AACTTGTGTAA1 | PAATTCC | : | 598 | | | | |
| TrMDHe9 | : | | | | : | - | | | | |
| TrMDHe10 | : | | | | : | - | | | | |

| TrMDHf1 : TrMDHf2 : TrMDHf3 : | CHNYVACHGCTATCHACCCTTCTTTCTTAVACAAWAATHATAGAYAAAHTGATCTCCTAAA | 60 |
|-------------------------------------|--|-------------------|
| TrMDHf1 : TrMDHf2 : TrMDHf3 : | 80 100 120 TTATTSGAGCCAAATTGAGATGGAAATGAGGATGGGAAATTCCCCCCAAAATCCCCCCCAAAATCCCCCCCAAAATCCCCCC | 120 |
| TrMDHf1 : TrMDHf2 : TrMDHf3 : | * 140 * 160 * 180 TECCANTITIONAGATGAATGAACATGGAATGCTCTTCTTCGACAAGTTCCATTGCCGTC : | 180 |
| TrMDHf1 : TrMDHf2 : TrMDHf3 : | 200 * 240 * | 240 12 |
| TrMDHf1 : TrMDHf2 : TrMDHf3 : | ACCICITY - ARGUMANGANGANGANGANGAN COLOR PROPER - AGUMANGANGANGANGANGAN COLOR PROPER - AGUMANGANGANGAN COLOR PROPER - AGUMANGANGANGAN COLOR PROPERTY - AGUMANGANGANGAN COLOR PROPERTY - AGUMANGANGAN COLOR PROPERTY - AGUMANGANGAN COLOR PROPERTY - AGUMANGANGANGAN COLOR PROPERTY - AGUMANGANGAN COLOR PROPERTY - AGUMANGAN COLOR | 299 70 29 |
| TrMDHf1 : TrMDHf2 : TrMDHf3 : | | 359 130 86 |
| TrMDHf1 : TrMDHf2 : TrMDHf3 : | GAGGETTTTTGGGGCAAAATCAGCTTGAGGATGCACTTACAGGTATGGATTTCGTAATC; | 419 190 146 |
| TrMDHf1 : TrMDHf2 : TrMDHf3 : | TTCCTGCCGGTGTTCCCCGTAAACCTGGAATGACAAGAGATGATCTCTTCAATATAAATG | 479 250 206 |
| TrMDHf1: TrMDHf2: TrMDHf3: | | 539 310 266 |
| TrMDHf1: TrMDHf2: TrMDHf3: | .CGTGANTAGTAATCCGSTFAACTCCACTGTCCCCATTGCGGGTGAAGTTTTCAAAAGAGCGTGANTAGTAATCCGGTTAACTCCACTGTCCCCATTGCGGGTGAAGTTTTCAAAAGAGCGTGANTAGTAATCCGGTTAACTCCACTGTCCCCATTGCGGGTGAAGTTTTCAAAAGAG. | 572 370 326 |

FIGURE 14

| | | | * | 620 | * | 640 | * | 660 | |
|--------------------|---|--------------|----------------|------------------------------|--------------|-------------------|----------|---------|-------|
| TrMDHf1 TrMDHf2 | : | Doggam of | mmh mail ma | CCAAGAGACTTT | magan ama | on a magazima a m | amaammaa | 2000 | : 430 |
| TrMDHf3 | • | | | CCAAGAGACTTT | | | | | : 386 |
| TIMDHT2 | | CCGGTAC | TIATGATC | CCAAGAGACTTT | TGGGAGTG. | ACAM IGC I IGM I | GIGGIICG | SGCCA . | : 300 |
| | | | | 680 | | 700 | | 720 | |
| TrMDHf1 | | | - | 000 | - | 700 | - | 120 | |
| TrMDHf2 | : | PACCET | тепесете | AAGTTCTTGGTC | TTTCATCCA | оссерностисски | CTCCCACT | nemer | : 490 |
| TrMDHf3 | | | | AAGTTCTTGGTC | | | | | : 446 |
| TIMDILL | | HACCHI | 10100010 | MIGITATIONIC | 110M1CCI | IGGGATGTGGAT | diccendi | IGICO | |
| | | | | 740 | | 760 | * | 780 | |
| TrMDHf1 | | | • | 740 | • | 760 | • | 780 | |
| TrMDHI1 | : | CACCACA | TOCOCOAN | TCACCATTTTAC | OT OTO OTT | POTOA COTTO A A | CCACATTC | ononn | : 550 |
| TrMDHf3 | : | | | TCACCATTTTAC | | | | | : 506 |
| TIPIDITES | | GAEGACA | TOCCOOM | TCACCATITIAC | CICIGCII | ICICAGGIIAAA | CCACALIC | CICII | . 500 |
| | | | | | | | | | |
| | | | * | 800 | * | 820 | * | 840 | |
| TrMDHf1 | : | Transport of | | mmos como como | | | | | |
| TrMDHf2 | : | | | TTGAGTACTTG- TTGAGTACTTGA | 03 03 m 00 0 | | | | : 576 |
| TrMDHf3 | : | TCACGAC | AVAVA(G(GAVAVA | TIGAGIACTIGA | CAGATCGC | ATACAAAACGGT | GGAACTGA | AGTTE | : 566 |
| | | | | | | | | | |
| | | | * | 860 | | | | | |
| TrMDHf1 | : | | | | : - | | | | |
| TrMDHf2 | : | | | | : - | | | | |
| TrMDHf3 | : | TTGAGGC | CAAAGCTG | GAGCTGGCTCT | : 592 | | | | |
| | | | | | | | | | |



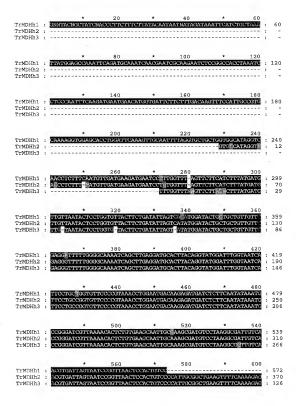


FIGURE 16

| | | * | 620 | * | 640 | * | 660 | |
|--------------------|---|--------------|---------------|-----------|--------------|------------|---------|-------|
| TrMDHh1 | ; | | | | | | | - |
| TrMDHh2 TrMDHh3 | ; | | ATCCCAAGAGACT | | | | | 430 |
| TrMDHn3 | : | CCCGTACTTATG | ATCCCAAGAGACT | TTTGGGAGT | JACAA TGC TT | SATGTGGTTC | CEECCE! | 386 |
| | | | 680 | * | 700 | | 720 | |
| TrMDHh1 | | | | | | | | - |
| TrMDHh2 | i | TACGTTTGTGG | CTGAAGTTCTTGG | TCTTGATCC | AAGGGATGTG | ATGTCCCAC | ттепес | 490 |
| TrMDHh3 | | | CTGAAGTTCTTGG | | | | | 446 |
| | | | | | | | | |
| | | * | 740 | * | 760 | * | 780 | |
| TrMDHh1 | | | | | | | ,,,, | - |
| TrMDHh2 | ÷ | GAGGACATGCCG | GAATCACCATTTI | ACCTCTGCT | TTCTCAGGTT | AAACCACATT | CCTCTT | : 550 |
| TrMDHh3 | i | | GAATCACCATTTT | | | | | 506 |
| | | - | | | | | | |
| | | * | 800 | * | 820 | * | 840 | |
| TrMDHh1 | : | | | | | | | : - |
| TrMDHh2 | : | | AAATTGAGTACTT | | | | | : 576 |
| TrMDHh3 | : | TCACGACAAAGG | AAATTGAGTACTI | GACAGATCG | CATACAAAAC | GTGGAACT(| AAGTTG | : 566 |
| | | | | | | | | |
| | | * | 860 | | | | | |
| TrMDHh1 | : | | | - : - | | | | |
| TrMDHh2 | : | | | - : - | | | | |
| TrMDHh3 | : | TTGAGGCCAAAG | CTGGAGCTGGCTC | : 592 | | | | |
| | | | | | | | | |
| | | | | | | | | |

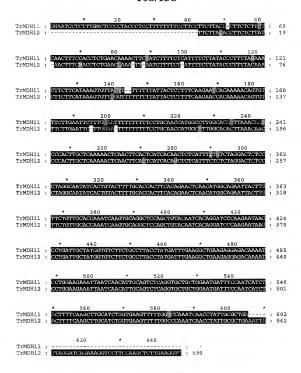
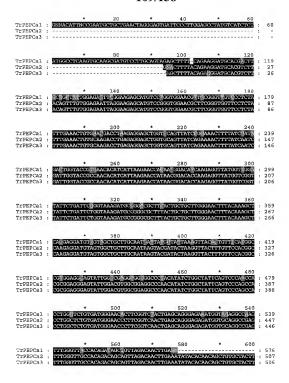
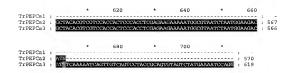


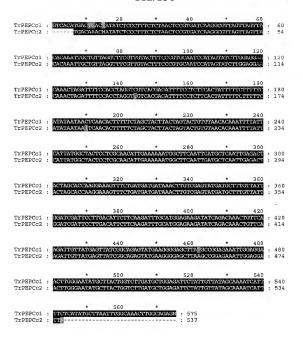
FIGURE 17





| | | | * | 20 | * | 40 | * | 60 | | |
|----------------------|---|-------------|--------------------|-------------|-----------|--------------------------------|-----------|-----|---|------------|
| TrPEPCb1 TrPEPCb2 | | | | | | TCGCTATCTCTT TCGCTATCTCTT | | | : | 60 60 |
| TrPEPCb1 | : | | | | | 100 TGATGAGTTCT | | | : | 120 |
| TrPEPCb2 | : | TCTGAAAT | TCCTGAA | GAAGCCACATT | CACCGATGI | TGATGAGTTCT | rggaacctc | TTG | : | 120 |
| TrPEPCb1 | | CTATOCTA | * ಆಗ್ರಾಥವಾಗ್ರಾಹ | 140 | * | 160 | * | 180 | | 180 |
| TrPEPCb2 | : | | | | | TGCGATTGCCG | | | : | 180 |
| TrPEPCb1 | | саперств | * | 200 | * | 220 ACTGGTAAGAC | * | 240 | | 240 |
| TrPEPCb2 | | | | | | 'ACTGGTAAGAC' | | | i | 240 |
| TrPEPCb1 | | ав апава | * | 260 | * | 280 TACCAAACATT | * | 300 | | 300 |
| TrPEPCb2 | : | | | | | TACCAAACATT | | | : | 300 |
| TrPEPCh1 | | ma den a ca | * | 320 | * | 340 | * | 360 | | 360 |
| TrPEPCb2 | : | | | | | GCTTTTGTCTG | | | : | 360 |
| | | | * | 380 | * | 400 | * | 420 | | |
| TrPEPCb1 TrPEPCb2 | : | | | | | ATGAAATTAGAGA ATGAAATTAGAGA | | | : | 420 420 |
| | | | * | 440 | * | 460 | * | 480 | | |
| TrPEPCb1 TrPEPCb2 | : | | | | | TGGAGCCTATA TGGAGCCTATA | | | : | 480 480 |
| | | | * | 500 | * | 520 | * | 540 | | |
| TrPEPCb1 TrPEPCb2 | : | | | | | TCAACGTGAAT TCAACGTGAAT | | | : | 540 540 |
| | | | * | 560 | | 580 | * | | | |
| TrPEPCb1 TrPEPCb2 | : | | | | | TGATCTCGAGN TGATCTCG% | | | | 98 84 |

FIGURE 19



113/138 Trcsal : GNNNCNCNACCATTACTTTAAT ACA TITTC NCTTTCGCCTTGTTCTTCTCTCTCAA : Trcsa2 : -----Acariconnametricetriceccitetretretretra : TrCSa3 : -----TrCSa6 : -----; TrCSa7 : ----- : 120 TrCsa1: TATAMAGACANTICANTICICANTICITYTIGATICOGAMATOATTCATTCTACG; TC: 120 TrCsa2: TATAMAGACA ATTCANTICICANTICITYTIGATICOGAMATOATTCATTCTACG; TC: 124 TrCsa3: TATAMAGACA ATTCANTICICANTICITYTIGATICOGAMATOATTCATTCTACG; TC: 104 TrCsa3: TATAMAGACA ATTCANTICICANTICITYTIGATICATTCAGG; TC: 104 TrCsa3: TATAMAGACA ATTCANTICICANTICITYTIGATICATTCAGG; TC: 104 TrCsa3: TATAMAGACA ATTCANTICICANTIC Trcsas : ----TrCsa6 : ----- : Trcsa7 : ---- : 140 180 TrCSa1 : TCTCTCTCTCTCCGCTTTCAAACCCTAGTTGTTTTGTTGATCTTAATGGCGTTCTT : 180 174582 : TOTCTCTTCTCTGGGTTTQAACCCTAGTTGTTTGTTGATTGATCTAAATGGGTTCT : 104 TTCGSA : TCT NCTTCTTGCTTQAACCCTAGTTGTTTGTTTATTGATCTAAATGGGTTCT : 100 TTCGSA : MIN TC N TCTSC TTC AACCCTAGTTTTTGTTGATCTAAATGGGTTCT : 57 TrCSa5 : -----Trcsa6 : -----200 240 TrCSa1 : TOGANGCOTTTCTGCCCTTTCAAACTAGGATCTCGTGGGGTCAACAACCTAGTCTTGC : 240 TrCSa2 : TOGANGCOTTTCTGCCCTTTCAAACTAGGATCTCGTGGGGTCAACAACCTAGTCTTGC : 224 TrCSa3 : TOGANGCOTTTCTGCCCTTTCAAACTAGGATCTCGTGTGGGTCAACAACCTAGTCTTGC : 226 TrCSa4 : TOGANGCOTTTCTGCCCTTTCAAACTAGGATCTCGTGTGGGTCAACAACCTAGTCTTGC : 127 TrCSa5 : -----TrCSa7 : ----- : 260 300 280 TrCSa1 : TAATTCAGTTAGATGGCTCCAAACTCCAAGCTCCAGTAACACTGATCTTTATTCTGAGAT : 300 Trcsa2 : TANTTCAGTTAGATGGCTCCAAACTCCAAGCTCCAGTAACACTGATCTTTATTCTGAGAT : 284 Trcsa3 : TAATTCAGTTAGATGGCTCCAAACTCCAAGCTCCAGTAACACTGATCTTTATTCTGAGAT : 220 Trcsa4 : TAATTCAGTTAGATGGCTCCAAACTCCAAGCTCCAGTAACACTGATCTTTATTCTGAGAT : 187 TrCSa5 : ----TrCsa6 : -----TrCSa7 : -----360 320 340 TrCSa5 : ----

FIGURE 21

114/138 380 400 420 TrCsal : TGTTGAATTGGGAAAAATCACAGCTGATATGGTACTTGGTGGAATGAGAGGGAATGACTGC TrCSa2 : TGTTGAATTGGGAAAATCACAGCTGATATGGTACTTGGTGGAATGAGAGGAATGACTGC
TrCSa3 : TGTTGAATTGGGAAAATCACAGCTGATATGGTACTTGGTGGAATGAGAGGAATGACAGCGC . 340 TrCSa4 : TGTTGAATTGGGAAAAATCACAGCTGATATGGTACTTGGTGGAATGAGAGGGAATGACTGC : 307 -----GNGCAAAAATACAGCTGATATGGTACTTGGTGGAATGAGAGGAATGACTGC 51 460 TrCsa1 : TTTAGTGTGGCTAGGCTCAGCTGTTGACCCAGATGAGGGAATTCGCTTTAGGGGCATGAC Trcsa2 : Trtagtgtggctaggctcagctgttgacccagatgagggaattcgctttaggggcatgac TrCSa3 : TTTAGTGTGGCTAGGCTCAGCTGTTGACCCAGATGAGGGAATTCGCTTTAGGGGCATGAC : 400 Trcsa4 : TTTAGTGTGGCTAGGCTCAGCTGTTGACCCANATGACGGAATTCGCTTTAGGGGCATGAC : 367 Trcsa5 : TTTAGTGTGGCTAGGCTCAGCTGTTGACCCAGATGAGGGGAATTCGCTTTAGGGGCATGAC : 111 TrCsa6 : TTTAGTGTGGCT-GGCT-GCTGTTGACCCAGATGAGGGAATTCGCTTTAGGGGCATGAC TrCSa7 : -TrCsal : AATTCCTGACTGCCAGAAAACACTTCCAGGTGCTTTTCCTGGTGGGGAG Trcsa2 : MTTccTGAcTgccagaaaacacTTccaggTgcTTTTccTggTgggGagccTTTgcccga : 524 Trcsa3 : AATTCCTGACTGCCAGAAAACACTTCCAGGTGCTTTTCCTGGTGGGGAGCCTTTGCCCGA : 460 TrCsa4 : AATTCCTGACTGCCA AAAACACTTGCAGGTGCTTTTACTGGCGGGGAGACTTTGACCA : 427 Trcsa5: MITCCTGACTGCCAGAAAACACTTCCAGGTGCTCTTTCCTGGTGGGAGCCTTTGCCCG.
Trcsa6: MITCCTGACTGCCAG-ACACTTCCAGGTGCTTTTCCTGGTGGGAGCCTTTGCCCG. : 171 : 133 TrCSa7 . Trcsal : ggctatactgtggcttctattgaccggaaaggtaccaagtaaagagcaagtagaftcatt : 600 Trcsa2 : GCCTATACTGTGGCTTCTATTGACCGGAAAGGTACCAAGTAAAGAGCAAGTAGATTCATT Trcsa3 : GGCTATACTGTGGCTGCTATTGACCGGAAAGGTACCAAGTAAAGAGCAAGTAGATTCATT : 520 Trcsa4 : GCCTATACTC GCNTTWTATTGACCGGMA------: 456 TrCsa5 : GGCTATACTGTGGCTTCTATTGACCGGAAAGGTACCAAGTAAAGAGCAAGTAGATTCAT : 231 Trcsa6 : egctatactgtggcttctattgaccggaaaggtaccaagtaaagagcaagtagattcatt TrCSa7 : --TrCsa1 : AGCTCACGAATTGCGAAGTCGTGCAAAAATCCCAGAGTATGCTTACAAGGCAATTGATGC TrCSa2 : ACC TrCSa3 : AGCTCACGAATTGCGAAGTCGTGCAAAAATCCCAGAGTATGCTTACAAGGCAATTGATGC TrCSa4 : TrCSa5 : AGCTCACGAATTGCGAAGTCGTGCAAAAATCCCAGAGTATGCTTACAAGGCAATTGATGC Trcsa6 : AGCTCACGAATTGCGAAGTCGTGCAAAAATCCCAGAGTATGCTTACAAGGCAATTGATGC . 253 TrCSa7 : --700 720 TrCSa1 : ACTGCCTGTTTCTGCTCATCCAATGACACAA TrCSa2 : -----TrCsa3 : ACTGCCTGTTTCTGCTCATCCAATGACACAATTTAGTACTGGTGTAATGGCCCTCCAGGT : TrCSa4 : TrCsa5 : ACTGCCTGTTTCTGCTCATCCAATGACACAATTTAGTACTGGTGTAATGGCCCTC TrCsa6 : ACTGCCTGTTTCTGCTCATCCAATGACACAATTTAGTACTGGTGTAATGGCCCTCCAGGT : 313

FIGURE 21 (cont.)

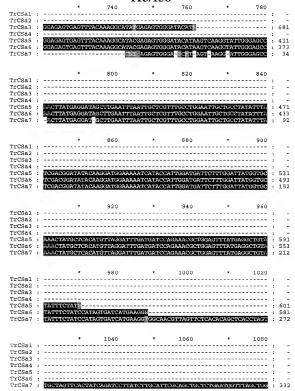
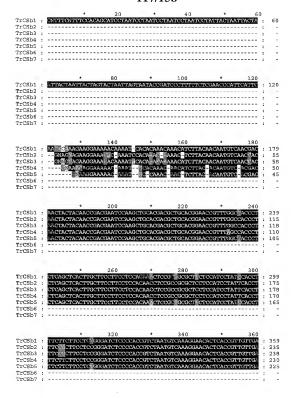


FIGURE 21 (cont.)

| | | | * | 1100 | * | 1120 | * | 1140 |
|------------------|----|-----------|-------------|---------------|---------|------------------|-----------|-------------|
| TrCSal | : | | | | | | | |
| TrCSa2 | : | | | | | | | |
| TrCSa3 TrCSa4 | : | | | | | | | |
| TrCSa4 | : | | | | | | | |
| TrCSa5 | • | | | | | | | ; |
| TrCSa6 | i. | acenemes | N/D/O/O/DID | AGCCAATCAGGAA | ammamna | OR MOOR MOR CARA | OA WA OWW | NACCH : 392 |
| Trusa/ | : | CCCACTGC | AIGGIII | AGCCAATCAGGAA | STICIAC | SATGGATCAGAAA | CATAGIT | : 392 |
| | | | | | | | | |
| | | | * | 1160 | * | 1180 | * | 1200 |
| TrCSa1 | : | | | | | | | |
| TrCSa2 | : | | | | | | | |
| TrCSa3 | : | | | | | | | |
| TrCSa4 | : | | | | | | | |
| TrCSa5 | : | | | | | | | : |
| TrCSa6 | : | | | | | | | : |
| TrCSa7 | : | GTTTGGAA | CTCCAAA | CATAAGTACAGAA | CAATTGA | GCGACTACATTCA | TAAAACA | MTC/W : 45 |
| | | | | | | | | |
| | | | | | | | | |
| | | | * | 1220 | * | 1240 | * | 1260 |
| TrCSa1 | : | | | | | | | |
| TrCSa2 | : | | | | | | | |
| TrCSa3 | : | | | | | | | |
| TrCSa4 | : | | | | | | | |
| TrCSa5 TrCSa6 | : | | | | | | | : |
| TrCSa6 | : | on omogoo | | GCCTGGATATGGA | | | | |
| Tresa7 | : | CAGTGGCC | AGGTTGT | GCCTGGATATGGA | CATGGAG | TTTTGCGCAATAC | AGACCCA | ACATA : 51 |
| | | | | | | | | |
| | | | * | 1280 | * | 1300 | | |
| TrCSa1 | | | | 1200 | | | | |
| TrCSa2 | : | | | | | | | |
| TrCSa2 | : | | | | | | : : | |
| TrCSa4 | : | | | | | | : : | |
| TrCSa5 | : | | | | | | : [| |
| TrCSa6 | : | | | | | | | |
| TrCSa7 | : | CACTTGCC | AGAGGGA | GTTTGCATTGAAG | CATTTCC | CTAATGATCCAN | . 559 | |



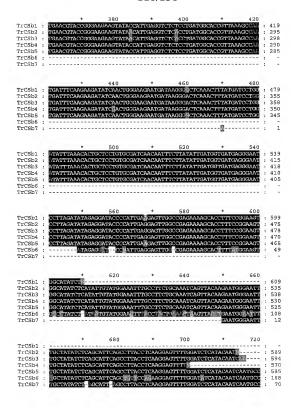


FIGURE 22 (cont.)

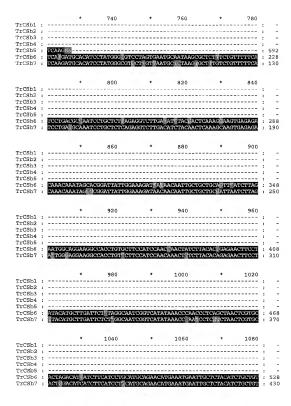
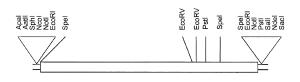
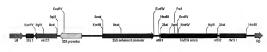


FIGURE 22 (cont.)

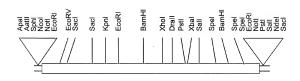




TrMDH



pPZP221:TrMDH sense



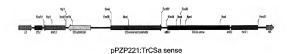
TrPEPC



pPZP221:TrPEPC sense



TrCSa





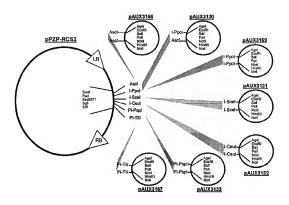
TrCSb





TrCSd





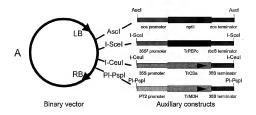
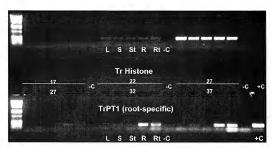


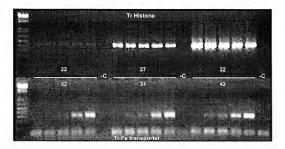


FIGURE 34

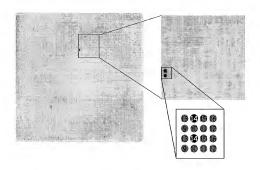
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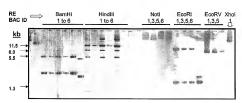
В







В



С

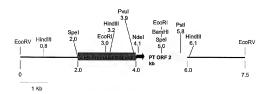
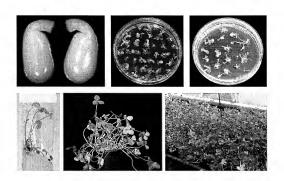
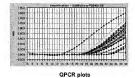
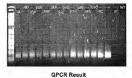
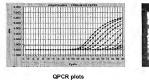


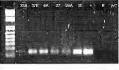
FIGURE 36











QPCR Result

